



Made in Japan

Sunnyvalc, CA, US. Atari's Jaguar is out of the next-generation race.

Redwood City, CA, US. After the failure of 3D0's Multiplayer, Trip Hawkins & Co. now claim that the whole 32-bit generation is doomed to fail.

The war for the hearts and minds of US videogamers is once again being fought solely by subsidiaries of Japanese corporations.

Sure, the homegrown PC game scene continues to thrive. But in the console business, Japan's **business** skills have **triumphed** once again.

But this time around, **there's a twist**, increasingly, the Japanese grants of **Nintendo**, **Sega**, and **Sony** are battling with European and American products and expertise as their **Weapons**.

The graphic vizards at SGI'S Mountain View, CA, US headquarters sold their secrets to Nintendo. WI2 (previously America's best shot at stealing back the videogaming initiative) is now in the hands of the Japanese glant Matsushita. And now, after the disappointing Ridge Racer Revolution and Toshinden 2, PlayStation will figur Nintendo 64 with pames made in Europe and the US.

Of course, lew would argue that the Japanese dominance is slipping. As the world locks to the unveiling of **Virtua Fighter 3** (p.14) and the imminent arrival of **Mario** 64 (p.6), there is little doubt that **Yu Sozuki** and **Shigeru**Miyamoto still lead the world.

But we're catching up...





May 1996 Contacts

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So Howard, what's the excuse this time?

Next Generation didn't have to go looking for Naneando of America's president and CEO Howard Lincoln to grant his third interview in nine months. This time, he personally came to see us. The topic? Three guesses, and the first two don't count



Get a Grip! Joysticks: past, present, and future

All electronic games have one thing in common: some device by which players interact with the game. Next Generation examines controllers past and present, then looks to the future to see how new technologies may change the very way you play games



Alphas: 15 games previewed

An exclusive look at Tenks and Formula One, two new PlayStation projects from the company that brought you Destruction Derby and Without • An interview with Capcom's Japanese software chief • Plus, Red Boron II, Power Ray Hockey, 3DON Decatation and more











Virtua Fighter 3 and Sega's long-awaited Model 3 board debuts . Next Generation reports on the ACME areade trade show . Saturn and PlayStation sales figures - who should you believe?



Finals: 31 games reviewed

Reviews the way you've come to expect them: no coddline no soft punches no compromise. If you want to know what to spend your hard-earned money on, start here or get burned

talking

So tell us Howard, what's the excuse this time? Not only has Nintendo 64 been delayed (again) in the US, but also in lapan. So what's the story?

News

All the latest developments in the world of gaming 24 Movers & Shakers (business news) Arcadia (coin-op news and updates) Generator (word from the developers)

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Save cash and time Tired of paying those high newsstand prices for the same exact product you could have delivered?

ng hardware

Joysticks

The humble controllers you use every day are about to affect you in ways you can barely imagine

ng software

A report from the dark, Cheetohs-strewn depths of the industry's top developers; Power Ploy Hockey (PS-X); Devil Summoner (Saturn); Time Gote (PC); Time Commando (PC); Tomb Raider (Saturn); Eurit (multi); Deogthlon (3DO): Movic Knight Royearth (Saturn); Red Baron II (PC), Die Hard Trilogy (PS-X); Iron Rain (Saturn)

90 rating

Finals

The good the bad the ones that put us to sleep, and what could be the last Jaguar reviews we ever run

Ten full pages of industry jobs. We have a pool going on what percentage of readers look here first

corresponding

Letters Once the normal letters are sorted from those by the "sanity challenged," it's a short list to answer

126 theorizing

The way games ought to be Chris Crawford on why most game stories have unhappy endings, and how sad that really is

Next month...

NEXT Generation #18 arrives on newsstr May 21. Find out how to subscribe on page 32





Your team should not be mided by the next and arderly appearance of this isolated massion. A major corporation's been conducting questionable research here. You'll soon discover the results of some very, very coreless experiments.



From hyper-realistic 3D lighting and an animous CD quality sound-track and special affects, to unique action perspectives, this interse drama unfolds, building tomar and suspense with every new room you wander through.

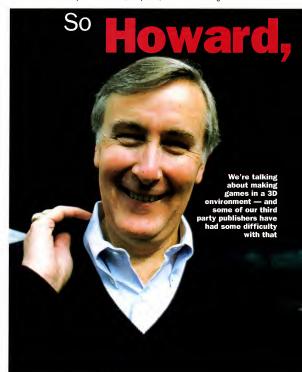


Fight or flight? When you're under-powered and an the run, split-second decision making abdition one key. Discover and arm yourself with anything you find knives, pistols, shatguru, flame-throwers and more.



This twisted 32-bit polygon based blood both int'l limited to gleaning dining rooms and andless polished hallways. Answers are found in darkest corners of the estate cemetrry, crumbling guest houses, and a mysterious tower

It's deja vu. Again. In **NG 8, Next Generation** asked Nintendo of America's President Howard Lincoln to explain why Ultra 64 (as Nintendo's 4-bit console was known at the time) had slipped from a 1995 release to April of 1996. Now, it's April "96, and there's still no sign of Nintendo 64...



what's the excuse this time?

alking about Nintendo 64's delays is becoming an increasingly boring, yet necessary, part of every videogame magazine's duties. Because of this month's last minute Virtua Fighter 3

coverage, and the fact that — to be brutally honest — Nintendo 64's delay isn't the most scintillating of topics, this month's interview is a meager three pages long.*

Of course, we're being a little crute to Howard Lincoln and Nintendo. The bottom line is that Nintendo is completely correct in waiting until it's properly ready before Isuuching Nintendo is 164. It's just more ahn a little disappointing, that's all. And the news of Nintendo 64's delay in Juan to June 23 was a surprise, even to those of us who had made the prediction that an April US launch would be impossible.

So why the delay? And, as PlayStation and Saturn games continue to improve, will Nintendo 64 offer any improvement over its competition when it finally does appear? **Next Generation** met with Howard Lincoln, once again, to find out.

Manufacturing problems NG: So why has Nintendo 64's launch been

NG: So why has Nintendo 64's launch delayed until September 30?

Howard: It's primarily a production problem just a supply-and-demand problem. I think the main problem is in the production of an adequate supply of the two key chips in the hardware the 64-bit CPU and the reality coprocessor. Getting that produced in quantities sufficient enough to meet what we regard as explosive demand in the japanese market is difficult.

NG: You must have anticipated a large demand? Howard: When we went into the Shoshinkai Show, we were shooting for a simultaneous launch fin all countries at the same time]. We'd never ever done a simultaneous launch before, but we thought we could do it. But, when we measured the demand after the show, particularly the demand in Japan — which we had a way of

measuring — it just became very apparent that if we were to stick to a simultaneous launch simply because we had said that's what we were shooting for, we'd end up shooting ourselves in the foot.

NG: Why would it be shooting yourself in the foot!

Howard: If we had stuck with the April launch in all there markets [US, Japan, and Europe]. I think we would have ended up dribbiling out a little bit in each — with not enough to meet the demand. This would cause all stere to agrant on confort on the consumer level but at the retail level, which is equally level with the consumer level but at the retail level, which is equally with not enough product because then they get into arguments with us about fair allocations.
"Well, why did he get this! I saw his at Toy R Us.



Albert Einstein could start programming for Sega and Sony and they're not going to be able to make [Nintendo 64] games

How come I don't have any!" That kind of stuff. And because of our relationships with those retailers, we can't afford to do that in any market. NG: Are you hinting that you don't want the same problems that Sega had, with its surprise launch of Saturn in May of last year?

Howard: Sega made a calculated decision to do what it did, but my feedback says that a lot of retailers were not too happy about it. I'm sure Sega had good reasons for what it did, and I'm not taking shots at Sega. I'm just saying that it's an





example of what can happen if the launch is not well done [i.e. with the full support of retailers].

So are the games ready? NGC seemily everyone dies is styll that NIG seemily everyone dies is styll that NINtended obeath have any manufacturing problems at all. and that the real story is that the games simply wouldn't have been ready for an April release. It is the care! Howard: I think that the three games that, for example. It is threat is indicated the was going to blanch with promotion of the complete of t

had we gone in April but, certainly, there's no

Giving our second-party developers and third-party publishers additional time is pure music to their ears



question that giving our second-party developers and third-party publishers additional time is pure music to their ears.





NG: So you'd deny rumors that making games for Nintendo 64 has proved to be more difficult than developers had anticipated? Or, that there's been a shortage of development kits given to the people who are supposed to be coming up with these games?

Howard: I think part of the problem that you've psecking about it hat it has been difficult in the last year to get an adequate number of any part of the problem of the problem of the And there ho question that the development of software for Nintendo 64 requires a greater investment, and is a much greater challenge (thin developers are used to). And not only because of the problem of the problem of the problem of because where tabling about making given in a 3D environment — and some of our third-parry publishers have had some difficulty with that, but it is perfectly understandable. Some have done protty much behind use those problems are protty much behind use those protesting are protty much behind use the protty much behind the those protters are protty much behind used the protty much behind used the protty much behind used to protter protty much behind used to protter protters are protters a NG: And are you confident that these delays, and the rumors of development problems, won't have put off other game developers from making games for Nintendo 64?

for Ninerado 64f Movard. The reality is that care third-parry Movard. The reality is that care third-parry floward is the reality of the real

Meanwhile, back at Sega's and Sony's headquarters...

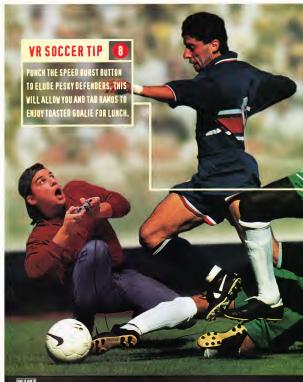
NG: Obviously, Sega and Sony will make the most of their extended head start. Just how big do you anticipate their lead will be? What is the Nintendo line on how many Saturns and PlayStations have been sold so far?

Howard: I cannot say that we are completely objective but, we are probably more objective on [the subject of sales figures] than anything else that we might say about our competitors. If you examine the '9S TRST data, our best estimate of sell-through - which is the only number that counts, stuff that's actually been sold to consumers, and not just boxes sitting on store shelves - our best estimate is probably in the area of, and I'll give you a range, 450 to 500 thousand for Sony, and ISO to 200 thousand for Sega. Clearly, Sony sold more than Sega in '9S. NG: But each month of N64's delay gives Sega and Sony a chance to improve their games. Is there a danger that when N64 finally launches, the games von't be any better than its 32-bit competitors? Howard: That's not going to happen. Software for the 32-bit platforms is going to get better. It's not going to get worse. You have to anticipate that in '96, '97, and '98 it's going to get better and better, just as it did on Super NES. But we have a high degree of confidence the software for Nintendo 64 is a quantum leap because of the technology and, quite frankly, because of the time we've taken. Albert Einstein could start programming for Sega and Sony and they're not going to be able to make [Nintendo 64] games because the technology is not there. NG: So, Nintendo 64 will really be available in US

stores on September 30". No more changes?

Howard: Look, we're not in the habit of putting full joge ads in U.SA. fodey and telling consumers it's September 30 when it's not going to be spetember 30. when it's not going to be spetember 30. And if it inst, you guys are going to come down on us and let us know about it. So, I think that when we picked that date we had a pretty high degree of confidence that it was going to be good.







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You can select from 44 international teams and play virtually any position. Plus, up to four players can play on one system with a network option for up to twenty players on

the PC. VR Soccer '96™. Now this is a game you can get into.





Virtual FieldVision™ allows you to play in real time from any camera perspective, including first person.



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Realistic polygon-based figures that look and play like the world's best, because they are.



THE DIFFERENCE IS REAL."











Model 3: Sega affirms arcade supremacy with Virtua Fighter 3 at the AOU in Japan/p.12 • ACME in Orlando: Sega and Namco dominate show floor/p.21 . Who is really winning the 32-bit war?: Hard data shows Sega and Sony are closer than previously thought/p.22 . Movers and Shakers: Chris Sherman tells all/p.24 . Arcadia: A full report/p.26



The first and best in hard-hitting news and analysis

Model 3: Sega affirms Virtua Fighter 3 arcade supremacy

redefines the state-of-the-3D art. leaving its rivals eating dust

The VF3 characters' faces have an incredible degree of animation. Even their pupils move

to follow opponents around the arena





Virtua Fightar 3 (abova laft) m. drop and ayes bulge. A constant rur inticated when Saga per dividuals to briafly play one stage o the dame (including one NG writer





nce again, an important Japanese arcade show has been eclipsed by the individual efforts of industry giants Namco and Sega. Last year's JAMMA event saw the two finishing on equal ground, virtually matching each other, game for game. At the Arcade Operators' Union show held outside Tokyo in late February, however, Sega was undoubtedly the dominant force, presenting several highly anticipated titles, as well as its next generation of

3D coin-op technology. Without question, AM2 provided the main attraction of the show, unveiling Virtua Fighter 3 and officially introducing the new Model 3 board,

which delivers more than three times more polygons than its predecessor. This was a surprise move considering Model 3 development has been significantly delayed over the past year or so. It was previously thought the system would not receive a premier until JAMMA in September

As for VF3, before the show it was unknown whether the

game would be presented in rolling or playable demo form. In the end, both were present, but the honor of actually playing the new game was given to just four Japanese gameheads (a Next Generation correspondent included) on the first morning of the event, with



Aodal 3 and VF3 nierts within AM2





Model 3 tech specs

Host CPU:

Resolution: (with Z-buffer and noninterlace) Graphics: geometry engine averaging 1m polygons/sec Renderer — 60m polygons/sec 24-bit textures Trilinear Interpolation Shading: High specular Gouraud shading, fix shading and flat shading Texture and edge multilayered anti-aliasing Lighting: parallel lights. four spotlights, pinpoint spotlights Special effects: zoning, fog: 32 levels of translucency Sound: SCSP x 2 (same chip as used in Saturn) 16-bit CPU — 68EC000 Sampling rate - 44.1 kHz 64 voices, two stereo pairs MIDI

Power PC 6030

496x384; 640x480

line evidence of the rendering performance of Lockheed Mertin's R3D technology - Sege cen toke geometry from its own series of CG character treits (for left) and render it in realtime et 60 frames per second...

only two selectable characters: Jacky and Dural (Virtua Fighter 2's boss). Despite these limitations, the playable demo fulfilled its purpose to prove how identical the running game was to the immaculate noninteractive demos shown throughout the event.

Most importantly, Virtua Fighter 3 represents the latest breakthrough in the development of realtime 3D graphics. The characters' faces, for example, have an incredible degree of animation; their pupils move to follow opponents around the arena and their

ena's Model 3 board is still







mouths can grimace and snart (in some cases revealing teeth). To accentuate this growing level of humanity, each fighter's breathing is visible and, after performing a particularly demanding attack, their chests expand and contract to

accentuate the physical exertion. The game features 12 characters, all of which were shown in the demo individually exhibiting their fighting techniques. Of the two new characters, one is a huge fat man whose for wohbles when he's hit while the other is a female fighter named Acc

What is it? It is the event at which Nintendo 64 will make its official US debut, Sega will announce a \$199 Saturn deal, and Sony will have to run to keep up. It's happening in Los Angeles between May 16 and 18...



Durel's incredibly reflective body mekes use of the R3D's Coursed sheding end 24-bit texturing. Conversions to the Saturn could be more then tricky





The licensing of its Model 2 technology to industry also-rans face and Jalaco has anabled Sagn to transfar its high-end efforts onto Model 3. Daad Or Aliva (abova), Super GT 24h (far right)

practices Akido, is dressed in a pink traditional kimono, and who has some incredibly powerful throwing moves. Of the old characters, Dural is an especially impressive update with a totally reflective body, mimicking the T1000 in Terminator 2.

In terms of backgrounds, all are resplendent with luscious texturemapped detail. Jacky's stage was are now so well constructed the fighters all bear a close resemblence to their CG portraits — which should come as no surprise given that CG portrait data was imported into the actual game. Consequently, the game looks and runs like a particularly good, and fast, prerendered sequence.

As for the crowd reaction, the

VF3 stand attracted so many people Next Generation's photographer found it tough to get within 50 yards of the exhibit throughout the whole show. The bad news is VF3 won't be out until much later in the year, although officials have said it will arrive in August or September.







A real life Pei (top) tries her skills at Sonic The Fighters, another new Model 2 curiosity

Not content with showcasing VF3 and Model 3,

AM2 were also presenting two much-hyped Model 2 titles. Sonlo The Fighters, now replete with all its characters, combines basic Virtus Fighter moves with Sonic

characteristics such as spins, sters, and helicopter jumps. The graphics are suitably colorful, cartcony and, as with VF3, character movement is extremely

fluid. Perhaps the game's most interesting feature is the new morphing technique employed for some special moves — characters can change shape and extend their limbs — a feature perhaps inspired by Street Fighter 2's Dahlsim or any of the X-Men characters.

Virtua Fighter Kids (Kizu), one of the more bizarre titles to be presented





AM3's reputation for quality was uphald at AOU with the superb Gan Blada MY — a holicopter-based shooter with superb graphics and a feedback gun

It is...
The Electronic Entertainment Exposition (more commonly known as E'). It's the world's biggest videogame show, and the highlight of the gaming industry's calendar



stown off in the playable demo and takes place in an impressive semi-constructed building. Here, the ground is actually translucent, enabling some of the camera angles to be placed below the fighters. Also, there's a quaint garden backdrop, snow stages, and a small island inhabited by Jeffry.

The graphic quality in VF3 products the logical progression in a series which has gone from simple polygons (180,000 polygons per second), to angular textures (300,000 pps), to realistic life-like figures (1 million pps). The characters' bodies



nd but AM3's hi well for Saturn own

at the show, features all the fighters from VF2 as well as a strictly identical selection of moves. The big difference. of course, is that in VF Kids, all the characters are presented as cute. large-headed children (or superdeformed as the Japanese - guite gruesomely - love to term it). Along with a few new ST-V ("Titan") titles -Funky Head Boxers, Decathlete, World Series Baseball - VF Klds was by far the standout. The game also features such shameless product placement as Jacky drinking from a can labeled "Java Tea" (a

famous Japanese brand name) when he wins a bout. This is an



common occurrence in anese videogame titles. And it doesn't require too much imagination to see a similar trend taking off on this side of the Pacific.

A rare look at the pecking order within Sega

HQ was afforded when AM3 was not allowed to show off Last Bronx because it would have clashed with



System 22 coin-op end was erate its best game at the show. Featuring head-to-head battle (two-on two or one-on-one, each player is equipped with between 12 to 30 tanks and har to destroy the opponent's en





created by internal rival AM2. This, however, was just one of several new AM3 releases at AOU, and the development team responsible for Sega Rally shows no sign of letting up its fantastic pace. Most notably, there was Gun

Blade NY, a Model 2 shooting game very much in the highly successful Virtua Cop mold, Here, however, instead of running around a cityscape shooting people, the player flies over the cityscape. In a helicopter, shooting people. The city is based on New York and includes Times Square, the Rockefeller Plaza and the UN building among its location settings. Apparently, to get a decent level of authenticity in the game, half of the Gun Blade design team flew over to the big apple to get a look for themselves. Sounds like hard work.

Special features of the game include basic Al in the enemies (enabling them to dodge bullets) and a stage where it will be possible to take on aircraft carriers (presumably against a Statue of Liberty backdrop).

Jumping on the retro bandwagon, AM3 also presented Decathlete, a Titan system board game based on the classic button-crunching Decathlon title. Although the athletes are now all polygon-based, the gameplay is the same old "press-buttons-to-gain-speed story. Could the "frantic button presser* be on the verge of enloving a comeback? Tragically. anything is possible in this business. Especially in an Olympic year.

Sega also chose the AOU to officially announce licensed thirdparty development using its Model 2 board. First up was Tecmo



Victory Lap is Nameo's follow-up to Ace Driver Now, if only this hed en System 23.



Following Alpine I comes e snov equivelent from Ne



ke. The ployer must le to stay up





Namco's PlayStation-powered System 11 games were impressive. From left, Xevious 3. Dunk Mania, and Soul Edge

to match
VF Kids is
Prop Cycle,
a title
continuing
Namco's
obsession
with
physically
interactive

gaming

A curio

presenting Dead or Alive, a highly competent beat 'em up. The game has many similarities with Namoo's Soul Edge — the characters are dressed in comparable gam and they use similar weapons. But the characters and backgrounds were recognizably Model 2-based, Furthermore, Jaleco was showing off Super GT 24th, a racing game apparently aimed (at the request of Sega) to compete with Raw Racer.

Among a proliferation of sequels and games which had already been revealed at earlier shows (e.g., Dirt Dash, Time Criss., and Soul Edge), Namoo really only had two key titles to present at AOU: Tokyo War and Prop Cycle. Tokyo War is a Cyber Sledstyle tank battle game set in two real Tokyo



player must sit on a mock-up bicycle and actually pedal — the faster he or she pedals, the faster the properties of the pedals, the faster the properties of the pedals, the faster the properties of the pedals, bucky them. Among the also-rans were roung games, Widory Lap and Alpine Surfer (a title US snowboarders will surely love).

Victory Lap — using the Super System 20 bond—features a similar look and feel to Acc Driver, but includes a new Abmanisonship mode (where points can be stored up from race to race) and two new courses. In Alpins Surfer, the player stands on a sony board instead of two siks. There are also two modes available — Free Paul and Gate Tinal — and an interesting jump feature providing the same's most notable etificials.

Although they are basically budget products, System 11 coin-ops are becoming an important part of Namco's release strategy. This is the first time that using home console



Konami's presence was low-key, although Wava





Capcom's Star Gladiators (laft) is its first home-grown effort to run on i PlayStation-based coin-on. Strant Fighter Zaro 2 (right) was better

districts (Tokyo Area and Tokyo Bay). The game, one of only a few System 22 titles to be presented, enables four players to take part at once. Protagonists can join either the white or green army which means, if there are two players on one side, they can compete or cooperate in order to win. A curio to match VF Kids is Prop.

Cycle, a title continuing Namco's obsession with physically interactive arcade games. Here, the player controls a flying bicycle which can sear over mountains, canyons, and rivers, and can also glide through

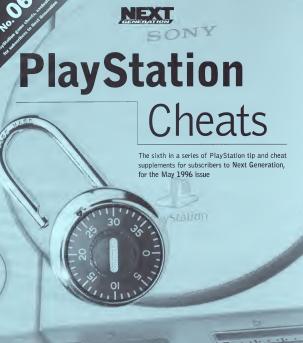








Taito's interasting Psychic Force (above laft) took the 3D fighter a suspended it in mideir. Ray Storm (right) took a more familiar path



hank you for subscribing to Next Generation. This free tips supplement is our way of saying a small thank you to all our readers for helping make Next Generation the hottest gaming magazine in the US. If you have any tips or cheats of your own, please share them with us. E-mail them to us at ngonline@imagine-inc.com. Fax us at 415.468.4686. Mail us at Next Generation Tips, 150 North Hill Drive, Brisbane, California 94005

cheating

UNLIMITED COMBOS

WWF Wrestlemania

To make the Combo Meter show up for every move first go to the Character Select Screen, Hold L1 and R2, then press Square, X, Circle, Triangle. When the Combo Meter shows up beneath your character, you'll know you've done the code correctly.

Toshinden 2 (Japan)

To play as any of the four hidden boss characters in Toshinden wit rst having to defeat them, first go to the Title Screen. As the Title Screen text is coming in from the left-hand side of the screen quickly press L1, L2, Triangle, R1, R2, Square on controller one. You will know you've done the code right if you hear a chime. Then walt for the Title Screen text again to come onto from the left-hand side of the screen ar on controller two, press Square, R2, R1, Triangle, L2, L1. To then access the hidden characters, highlight the random box and hold down the Select button until you see the character you'd like to choose.

OVERDRIVE Moves

Toshinden 2 (Japan)

To do any of the characters' overdrive moves, simply wart until the overdrive meter at the button of the screen fills up, then press all four shoulder buttons (L1, L2, R1, R2) at the same time. Each character's more is different, but they are all more powerful than their normal moves

Viewpoint **Electronic Arts**

To play Viewpoint in Invincibility Mode, first press Start at any point to pause the game. While the game is paused, press Square, Square, Circle, Circle, Triangle, X, Square, Up, Up, Down, Down, L1, R1, Select. If done correctly, you will be able to play the rest of the game without taking any damage.

In The Zone

To lump higher in NRA: In The Zone, press Turbo and Jump at the same time. To give an alley-oop pass, press the Pass and Shoot buttons at the same time. To do an unblockable dunk press Square to lump, then double tap Triangle while the player is in the air.

STAGE SELECT

Loaded Interplay

To access the stage select, go to the title screen and press Up, Up,

Down, Left, Circle, Triangle, X. This will give you instant access to any level in the game.

To play as a hidden character named Pogo, go to the character select press Select and Start at the same time. If done correctly, you should hear a voice say "Pogo" and you will see the new character appear as a

Thunderstrike 2

Advancing through Thunderstrike 2 is not one of the easiest things to do. but it is one of the most fun and with the following level codes it should be guite a bit easier. Then enter the codes; just go to the passwords screen and advance to any level you'd like to play.

South America

Level 1 - ONHVOV6VEBDU55Q

Level 2 - 2NH70V9VEFDQ592 Level 3 · 7RH30V7AEFD64BI Lovel 4 - BNH30VBEEJD24PI

Gulf 2 - Oil Dispute Level 1 - VNHROVOE6JDE53I

Level 2 - ORHVOUG66NDA53A Level 3 - IFHDQUQU6RDM5P2 Level 4 - NJHPOUKE6VDI5BI

Level 1 - 07HP0U00AUDE45A Level 2 - U7HLOUNIAUDA5RA Level 3 - AFHPOLIKIJA2DM4HI

Cantral Amarica Level 1 - FJHLOUGII2CE4KI

Level 2 - G7HH0U72I2CA5R2 Level 3 - 2BHPOURQI6CM58A

South China Soa

Level 1 - KRG50UR026GE4J2 Level 2 - ORGLOUTISAGASUI Level 3 - FRG9S1CM3EGM52I

Level 1 - 93G5SD9UNGGE40A Level 2 - VVG55HUENGGA4SQ Level 3 - JNGH4CPUNKGM5TI

Eastern Europe Level 1 - L3GG4406V0EE5R1 Level 2 - F7GK5S20V0EA41A

Level 2 - 27GKEQUAVAEMERO

Level 1 - 7FGK4BT6RBME4NI Level 2 - 8JGK4BVURBMA5JQ End - T7GK28U2SCMM401

Assault Rigs

Paygnosis A game like Assault Rigs is made infinitely better as you continue to play and build your arsenal. Here are some easy ways to speed-up the process. To access all weapons, press Left, Right, Left, Right, Left, Right, Left, Right, Right, Up, Down, Up, Up, Down, Up, Down, Down during gameplay. When you will hear the message: "Max weapons added... Oh yes!" you'll know you've done the code right. To be invincible, press Left, X, Left, X, Left, Left, X. Right, X. Right, X. X. When you hear; "Invincible! Yes indeedy," you'll know you've executed the code right.

Assault Rigs

LEVEL CODES Psygnosis To skip to any level of the game simply enter the following level codes at Level 1 - Welcome - Circle, Circle, Circle, Circle, Circle, Circle, Circle,

Level 2 - Next Gen - Square, X, Square, X, Triangle, Square Level 3 - This way - Triangle, Source, Source, Circle, Circle, Triangle Level 4 - JoyJoy - Triangle, Square, Triangle, Triangle, Circle, Triangle Level 5 - Noddy - Square, Triangle, Triangle, X. Triangle, Level 6 - Wastelands - Triangle, Square, Circle, Circle, X. Square Level 7 - Vertigo - X. Square, Square, Square, Circle, Triangle Level 8 - Gern Tower - Triangle, Square, X, Square, Triangle, Triangle

Lovel 9 - Bridge - Square, Triangle, Square, X, Triangle, X Level 10 - Obliterate - Triangle, Triangle, Circle, Square, X, Square Level 11 - Arena - Triangle, Triangle, X, Triangle, Circle, Square Level 12 - PBM - Circle, Square, Triangle, Triangle, Triangle, Circle

Level 13 - Ramps - Triangle, Square, Circle, X, Triangle, Square Level 14 - Oasis - Triangle, Triangle, X, Square, Square, X Level 15 - Halls - Circle, X, Triangle, Triangle, Triangle, Triangle

Level 16 - Coaster - Circle, Square, Circle, Circle, Circle, Square

Level 17 - Mine - Triangle, Triangle, Triangle, Circle, Triangle, Square Level 18 - Look Up - Square, Circle, Square, X, Square, Triangle

Level 19 - Deadline - X. X. Square, X. Triangle, Circle Level 2D - Fort - X, Square, X, Triangle, Triangle, Square

Level 21 - Stairway - Triangle, Square, Triangle, Square, Triangle, Triangle Level 22 - Park A Lot - Square, Square, Tnangle, Circle, Square, Triangle

Level 23 - ZamCam - Circle, X, X, X, X, Triangle Level 24 - Shootme - Triangle, Square, Square, Triangle, Triangle, Triangle Level 25 - Wild - Triangle, Circle, Triangle, Triangle, Circle, Square

Level 26 - Dil Rig - Square, Circle, Circle, X, Square, X Level 27 - Rightway - X. Circle, Square, Triangle, Triangle, Square Level 28 - Waste Two - Square, Circle, Square, Square, Square, Square

Level 29 - Dodge - Triangle, Square, Circle, X, Circle, Circle Level 3D - Air - Square, Circle, X, Circle, X, Square Level 31 - Jump - Circle, Square, X Triangle, Circle, Triangle Level 32 - Room 1D1 - Triangle, Square, X, Circle, Square, X

Level 33 - Firepower - X, X, Triangle, X, X, Squar Level 34 - Wave - X, Circle, Square, Circle, Circle, Square

Level 35 - Push Dff - Circle, Triangle, X, Triangle, X, Triangle Level 36 - Perimeter - X, Triangle, Tnangle, X, X, Square

Level 37 - Spiral - X, Triangle, Triangle, X, Triangle, Square Level 38 - Sounce - Circle, X, Triangle, Triangle, Square, Triangle Level 39 - The Castle - Square, Triangle, Square, Triangle, Square, X Level 40 - Fortress - Square, X, Triangle, X, X, Triangle

Level 41 - Lifts Ahoy - Triangle, X, Triangle, Circle, Square, X Level 42 - Push Me - Circle, X, Triangle, Circle, Triangle, Square

Street Fighter Alpha To play as M. Bison, go to the random box on the character select

screen, Hold down L2 and press Left, Left, Down, Down, Left, Down, Down, Square and Triangle, To play as Akuma, go to the random box and hold down L2 and press Left, Left, Left, Down, Down, Down, Square and Triangle. To play as Dan, go to the random box, hold down L2, and press Triangle, Square, X, Circle, Triangle. To access different color outlits replace Square and Triangle with Circle and X for M. Bison and Akuma For Dan, press Triangle, Circle, X, Square, Triangle while holding the L2

Crystal Dynamics

To use any of the following codes, you must first pause the game with the Start button then while the game is paused press and hold R1. While holding R1 with the game paused, enter the following codes. If done right the game will "unpause" by itself when you are finished. Infinite Lives - Up, Circle, Triangle, Down, Right, Square, Down ice Weapon - Circle, Circle, Left, Down, Circle, Up, Right Super Jump - X, Circle, Up, Up, Down, Right, Right Fire Balls - X. Up. Right, Up. Right, Right Electricity - Right, Left, Right, Circle, Triangle, Right, Circle, Down, Right

Invincibility - X, Square, Down, Down, Up, Down, Right

Namco Museum Classics Vol. 1

This code is as classic as the game itself. At the beginning of a game of Galaga, avoid shooting at the ships as they go into their first formation. Then destroy all of the ships except for the vellow/blue ships in the first row from the left. Let the two remaining ships fly and shoot at you for several minutes. Be sure not to fire even one shot until the ships stop shooting at you. Doce you are positive the ships are no longer shooting a you, destroy the two remaining ships. Dince you have destroyed these throughout the rest of the game.

LEVEL PASSWORDS Johnny Bazookatone

U.S. Gold

To jump to the second level, enter AFLEAPIT at the password screen. For evel three, enter TEASPDON. For level four, enter SEDATION. To jump to

the fifth and final level enter VERYNICE

Johnny Bazookatone US Gold

To play Johnny Bazookatone in Invincibility mode, enter the password PILCHARD at the password screen. For a level select try entering KRISTIAN at the password screen.

STAGE SELECT

Jumping Flash! Sony CE

correctly.

To access the stage select in Jumping Flash!, go to the title screen and ress Up, Up, Down, Down, X, X, Left, Right, Left, Right, X, Triangle, X, Triangle. When the background turns red you'll know you've done the code correctly. Start the game and use your d-pad to scroll through the stages.

NightWarriors: Darkstalkers Revenge

SPECIAL METER

As you perform hits and moves, or block a hit, this special bar fills itself up. Dnce it has been filled, it begins to fill again. The color changes for each time it fills up. Most special moves or throws can be powered up to ES versions. This uses one full level. The EX moves require one level as well. The more times the meter fills up, the more ES and EX moves you can pull off consecutively.

GUARD REVERSALS

Guard Reversal is the ability of each character to cancel his/her own block into a particular special move, depending on who the character is. To perform a Guard Reversal, you must finish the code for your particular Guard Reversal at precisely the same moment you block the move you are attempting to revers

THEON SOFTENING By hitting strong or flerce in the first frames of a throw animation you can enable your character to land on his/her feet and be in position to strike.

You can also flip out of a hold after the first hit, if you time the button

ROLLIN', ROLLIN', ROLLIN' After being knocked to the floor, you can press toward or backward to move while getting up. It's good to get out of trouble or set up a quick counter. You're also invulnerable to normal attacks while getting up. A great way to set up a throw is to roll into your opponent and perform the

Demitri Maximov Chaos Flare..... .000 + Punch .000 + Kick .000 + Punch .0000+ Punch Demon Cradle...... Dashing Demon Cradle. . . . Negativus Thom..... Punch (when close) EX Attack: Midnight Pleasure

OOO+ 2 Punches EX Attack: Demon Blast. . Huitz i I

Plasma Beam. 000 + Punch 000 + Kick 000 + Punch 000 + Punch (Guard Reversal) 0000 + Punch (when close) 000 ± 2 Kicks Might Launcher..... Genocide Vulcan. . . . Reflect Wall.... Circuit Scrapper.

The combo system enables you to chain a senes of normal attacks

together, much like Street Fighter Alpha, You have to cancel the animation of a normal move into another normal move, so that the hits come in rapid succession. To successfully pull off a chain combo, you

cheating

must hit the next attack at the procise moment your first attack makes contact. The best order for chains is as follows. Jacobson's Story's Grown's Forward Parrier Roundhouse, Themeters, you contact with all as the third combot with all as the third combot with all as the process of the story of the sto

Lord Raptor
Skullsting
Hell's Cate GGOOD + Kick
Dooth Hurricane
Skull Vanish
EX Attack: Evil Scream
EV Attack: Dooth Voltage QQQQQ + 2 Kirks
EX Attack: Hell's Dunk 000 + 2 Punches
Bishamon

Bishamon Iai Giri	O hold, O + Punch or Kick
Hane Yaha	00000 + Punth
Kaeshi Yaiba	O + Punch (after contact w/Hane Yaiba) OOO + Punch (after contact w/Hane Yaiba)
Mukuro Fuuli	OOO + Punch
	COD + Punch (Guard Reversal)

N	risute Go	amen		000	CO CO	+ 2 Punches	
E	K Attack	: Tsurane	Gin	. 1Y3[2	+2	Kicks	

Soul Smasher 000+ Punch
Mid-Air Soul Smasher,
Zodiac Fire DOO + Punch
Debiter Blace
Colony Trin GOO + Kick
Planet-Burning 199
FM Assessing

Cosmo	DIS	uppo	n,	 	90	00	T 2	Fulke	CS

Soul Fist OOO + Punch
Mid-air Soul Fist
Shedow Blade
Shell Kick 0 + O (in air)
Vector Drain
EX Attack:
Darkness' Illusion Jab, Jab, O, Short, Fierce

Astral Vision	, Jab, Jab,	O, Strong, Fierce

Jos										_	
Cir	mb	La	se	r.		ı.	ı			O	ł

	00	Kick	
	,ଓଡ୍ର	+ Punch	

DF Beast Cannon
DF Beast Cannon 400 + Punch (in air)
Million Flicker
EX Attack: Dragon Cannon00000+ 2 Punches
Ex Attack: Mirage Body
EX Attack: Mirage Body GGGGGG + 2 Noks
Sasquatch
Dur Comm. OPO + Durch
Big Towers.
big lowers
Big Cyclone + Kick
Big Typhoon
Rid Rrunch
Big Swing
Circumstantia Day Commun. OROSO + 2 Directors
EX Attack: Big log Burn, .00000 + 2 Kicks
EX Attack: Big Ice Burn
Victor Von Eldanhalm
Cure Harmonia A Hold O + Durch
Olar Protection Control of the Contr
Giga Bustar O noto, O T Nick
Gyro Crush OGG + Punch
Giga Burn,
Victor Voe Eldenhalm Hold, Q + Punch Giga Burrier Q Hold, Q + Kick Giga Burser Q Hold, Q + Kick Giga Burser Q Hold, Q + Kick Giga Burser Q Q + Punch Giga Burser Q Q + Punch Giga Burser Q Q + Punch Ex Attack: Chandet Break Q + Q + Punch Ex Attack: Careet Geldenhalm Q Q Q Q + Q Punch Q Q Q Q Q Ex Koles, Punch Q Q Q Q Ex Koles, Punch
TV Assessin Theresian Denois O Hold Q + 2 Dunchne
EX Attack, Highlight Block, Office Control
EX Attack: Great Geldenneim
Donovan Bal na
Drop Sword, Punch + Kick
Call Sword, , Punch + Kick
Sword Elementals:
Sword Elementals:
Efreet Sword OOO + Punch (Guard Reversal)
Blizzard Sword 00000 + Punch
Lightning Sword OOO + Punch Sword Grapple OOOO + Punch (when close)
Sward Connols OPOGO + Punch (when close)
FX Attack: Breath of Death
EX Attack: Breath of Death
EX Attack: Change Immortal Strong, Jab, O Short, Forward
Anakaris
Anakaris
Anakaris Punch + Kirk Sercophagus Dance Punch + Kirk Pharaon's Judgement OPO + Punch (in air) Cobra Blow OPO + Punch Mummy Drop OPO + Punch Alexander Aire
Pharaoh's Judgement, Punch (in air)
Cohra Blow + Punch
Mummy Dmn OOO + Punch
The Void (catches projectiles)000 + Kick
EX Attack: Pharosoh's Masic. , Forward, Jab, O Forward, Roundhouse
EX Attack: Pharoson's Magic Forward, Jab, O Forward, Roundriouse
EX Attack: Chasm of Hell OGOOO + 2 Kicks
EX Attack: Pharach's Splt Jab, Jab, O Forward, Roundhouse
Hsien-Ko
Ania Hou
Anka Hou
Sempuu Bu + Punch
Sempus Bu. OCO + Punch Herikyou Ki. OCO + Punch (Guard Reversel) Houten Geki. OCOOO + Punch (when close)
Housen Cost DOOGQ + Punch (when close)
EX Attack: Jirel Tou
EA Attack: Jeen tou GOOGG +2 NCKS
EX Attack: Tenrai Ha Short, Roundhouse, Strong, Strong, Up

Fallica Buckler. OOO +2 Punches Rolling Buckler. OOO +2 Punches Rolling Scratch. OOO + 2 Punches Delfa Kirk. OOO + Hick Countries Sand Scratch. OOO + Hick Countries Rolling Scratch. OOO + Kirk (When close) EX Attack: Denning Rissh, OOO + 2 Punches EX Attack: Denning Rissh, OOO + 2 Punches



Physication architecture) in an arcade board has been successful, perhaps because Namco is taking the idea serious)— producing quality games of families of producing quality games of families out projects to lesser development teams. Basketball sim Dunk Manss, for example, looked to be a graphically occellent title with fast-shaded players moving gracefully concernation as inevitable, passibly over eclopaing. Total NBA when it appears later this year.

The retro sandward producing and the producing the producing the producing profit of the producing the pr

Despite the

ascendancy

continued

of Namco

and Sega.

many other

companies

Tecmo) had

noteworthy

titles to

present

(like Capcom,

Konami. Taito.

technology (System 11 is based on

The retro bandwagon rolls on with Xevlous3, a 3D scrolling shooter based on the 12-year-old original. This time, though, the space ships are all textured polygons with some having the ability to morph. Again, it's System 11 and therefore PlayStation fodder.

11 and therefore PlayStation todder. And, despite the continued of Segit, many other loan, of Namor and Segit, many other loan, of Namor and Segit, many other loan, of Namor and Segit, many other loan, of the loan, of loan, o

Comparable to Xevious 3, Ray Storm is enother retro-esque vertical scroller. As with the Namoo title, Ray Storm features polygon-based ships, instead of sprites, and a similar









Although Jaffry was a sight to see, Dural's amazing morphing scenes captivated crowds (top). Acl was interesting to see fighting in a kimon:

perspective. Talto's new FX-1 board seems to be more powerful than Namoo's System 11 — the sprites move faster, effects are more impressive, and the space crafts are much more detailed.

Capcom introduced two failty important new games — Street important new games — Street Fighter Zero 2 (Ajona 2 in the US) and Sax Glandraos. SPZI (Histers) S. SPZI (Histers)

US vs Video-

games, Part 2 Meanwhile, speaking at a public library in a precampaign roundtable with readers of Good Housekeeping magazine in March, First Lady Hillary Clinton blasted videogames, saying that she was personally "appalled" by the audio in a game that appears to be Mortal Kombat, though it wasn't mentioned by name. Mrs. Clinton also stated that while "we don't have evidence yet about [the harmful effects of] videos [sic], we're beginning to."

Mrs. Clinton went on to say that one of the best ways to control videogame violence was with "some sort of voluntary rating system." Of course, what Mrs Clinton obviously hasn't bothered to find out is that a "voluntary rating system" was adopted by the videogame industry in the videogame videog

December '94.
As for videogames causing harmful effects, exhaustive studies have yet to discover a link between videogames and increased violence or other harmful effects in children. (See NG 10).





with waves lapping on the shore (possibly the laval he will fight on), he flexed his pectorals, bicaps, and back muscles, while watching camers which penned around him, The grim Lau (abova) almost looks real

breaking



Thenk God Jecky's heir is still as vertical as ever (top). Although unconfirmed, the backgrounds in all characters' levels may very wall work into gamepley

Cappon that it had chosen not to reveal SF2 at AOU — even a 30 Ken and Ryu would have had a hard time competing with VF3. Star Gladiators, however, the company's first in house 3D polygon based beat 'em up, ciew a large crowd and is perhaps Cappon's concession to the dominance of not concession to the dominance of has a similar vasual style for Forhiden, but characters have a futuristic look. Expect SF2 to build on this template.

So from the evidence on display at ADU, it seems Sega's domination of the arcades is currently unquestionable. VF3, Some The Fighters, VF Kids, Virtual On, and Gun Blade MY make up a formidation release schedule with which Namou will have a hard time keeping pace.



One of the first scenes was Durel morphing up from the ground é le T1000 from the movie Terminator 2

Furthermore, by licensing its Model 2 technology to third parties,

Sega can delegate competition with its main rival, Namoo, to other developers (hence Dead or Alive vs. Soul Edge and Super GT 24h vs. Victory Lag), leaving the AM departments piently of time to concentrate on ongmal high-end developments. The arcade scene has

never been as vibrant or as exciting. And even if Sega's Saturn is having a hard time battling PlayStation, its dominance in the colin-op world is without question. Expect Virtua Fighter 3 to release this fall.

As if to highlight Aol's features, Jecky got his tel whipped in each scene







Although Jacky is one of the originel, end ell-eround strong, characters, Yu Suzuki and AMZ took no pity on him in the demo, as shown here getting his feir shere of hurt vie Jeffry (ouch). Notice the seaguils in the background





XXXID SPORTS SERIES...



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MEMORY BACKUP



SIGNATURE MOVES
TRADES
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AND PLAYOFF MODES
VOCAL UMPS

VUCAL UMPS ERRORS









ANNOUNCER PLAYER STATS









ake the worlds leading professional 3D modeling and animation system and completely re-architect it for Windows NT. Use it to squeeze true workstation performance and image quality out of your PC-class budger. That's 3D Southo MAX"—workstation performance on the PC of your choice.

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Best of all, JD Sudio MAX takes the idea of plag-ins to the next level. Now they are fally integrated with MAX as if they were standing features Hundreds of independent developers are already hard at work creating new modelers, particle systems, renderers and special effect plag-ins to give you endless possibilities for creating new worlds. And looks soon for Chancter Sudio" from Kinetix, a revolutionary autoreach to chancter a ministion

Whether you're a game developer working at home on a Pentium 90 or a post house meeting impossible deadlines for a feature film with a network of multiprocessors 3D Studio MAX is for you

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Onnois be US and Crossis, Irc. us at 1906 100 1700 D Compute 1996 Autodes in a Autodes and SD Seado are required indicated and SD Soudo MAX, Kentus and Cheestas Studio on condensate at Mondels for in the US and once the Indicated and Indicated and Indicated and Indicated and Indicated Autodes and Indicated Autodes and Indicated Autodes and Indicated I

Virtua Fighter 3 steals **US show** New technology

and a slough of strong titles put ACME on the man for its 10th anniversary show

hile the 10th ACME (American Coin Machine Expo) glowed with a huge new cast of groundbreaking videogames, the brightest star was Sega AM2's Virtua Fighter 3 which



stood in contrast with September's AMOA (American Machine Operators Association), which showed fewer games, and was full of questions about the future direction of the

The unbest show

rs wee Tokyo Wars, e le to the deeth teni e with greet fee

arcade Industry, ACME, the US equivalent of the Japanese AUO (Arcade Operators' Union), boasted the first showing of at least 15 new games from Sega and Namco alone, as well as many more titles from Williams/Bally-Midway, Konami





tion of its nonule

While most companies are still building their first 3D fighters, like Midway (or Tecmo, which licensed Sega's Model 2 technology for Dead or Al/ye). Sega signaled that its direction. in light of its new partnership with MCA-Universal and Dreamworks SKG. creating Sega Gameworks, will be FECs (Family Entertainment Centers). and high-end simulators. High level Sony representatives were also at the show, watching Sega's every step, and planning their own entry into the arcade industry, which pundits

speculate will be sometime in 1997 But on the floor, it was VF3 that stunned the crowd, sending out a clear message that Sega, with its 1-millionpolytons-per-second Model 3 hardware, is still the industry's clear leader. The Japanese arcade stant planned a perfect coupe over competitor Namco, whose Tokyo Wars, Time Crisis, and Soul Edge were ready to take the show crown.

However, Namco's new light-gun game, Time Crisis (NG 16), found its share of attention. Featuring a foot peddle that enables reloading and ducking maneuvers, the time-based adventure added a whole new level to the steady shoot 'em up genre. Tokyo Wars, a four-player tank battle sim, also drew its large share of gamers.

While throngs of people found the Sega and Namco booths enthralling - their games ranging from Sega's Manx TT, Virtual On, Virtua Fighter Kids, and The Sonic Fighters. to Namoo's Dirt Dash, Victory Lap, and Soul Edge - Midway had a surprise title of its own. War Gods, one of the only uniquely American fighting games on the floor, drew steadily increasing crowds, as gamers discovered how to move the fentestically digitized 3D characters and learned secret moves. Midway has produced, for the first time in arcades, characters with digitized texture-maps of real people wrapped around polygonal structures, creating clean-cut, fast moving characters. Simply put, War Gods is a technological feat, and the next step forward for Midway's Mortal Kombat series (though it's not technically

Mortal Kombat). Next door at the Capcom booth, yet another new animated, 2D fighter appeared in the guise of Street Fighter Alpha 2. Highlighting a creative feature in which gamers can program up to three simultaneous moves, and sporting three new characters, one of whom can switch fighting styles in the midst of play, SFAII drew only small crowds of loyalists, but surely will pack arcades with fighting fans.

Making a bit of a comeback is Konami. With Midnight Run, a fun fourplayer driving game, Wave Shark, a speedy jet-ski game full of potential, and Run and Gun II, a sequel to the classic, Konami is gaining strength.

Among the more unusual games was Virtuality's Missile Command, an entertaining VR remake of the original, and a smart, if not trendy, direction for Virtuality to take

And the

Winner is... The American Amuser Machine Association (AAMA) handed out its most prestigious accolades, the Manufacturer and Distributor of the Year Awards, to Williams Bally/Midway and Brady Distributing Company, respectively. AAMA judged Williams on design, product quality. and customer satisfaction, while gauging Brady on sales, product enthusiasm, marketing support, and parts-and-service

The AAMA board of directors also presented its Product Excellence Awards for 1995, although these rewards are strictly based on sales achievements, (i.e., how well they sold). In the top videogame category, the three Diamond Award winners were Sega's Daytona Twin; SNK for its NED-GED System; and Midway, for its Mortal Kombat 3 kit.





Street Fighter 37 Ne heard of it... Inst com had Street Fit

Just who is winning Acquiring accurate the **32-bit** war?

sales figures in the videogame industry is nearly impossible. But NG managed it ...

Sega drops

to \$199 in

Japan; US

to follow

Sega of Japan has

mounced a new scaled-

retail for \$199 US, around

\$150 less than the current

back Saturn which will

price in Japan, Savings

economies of scale and

will be fully compatible

with current Saturns.

Although no official

made yet by Sega of

America, it is beyond

will passed on to US

according to sources

within Sega. The only

Although some Sega

price drop timed for the

Nintendo 64, increasing

watchers are convinced

Sega will attempt an E'

September launch of

numbers of industry

ders were hinting at a

question is when.

consumers soon.

dispute that the savings

chip integration; the unit

ouncement has been

were realized through

Saturn price

ack in the fall of 1995, Sony was eager to publicize PlayStation's awesome early sales figures (100,000 sell-though in the first weekend it was available). Meanwhile Sega, whose surprise Saturn launch in May was less than successful, kept quiet about numbers until after the winter holiday season. This led to a perception, of course, that PlayStation was pounding the hell out of Saturn, in terms of sales.

According to Sony, it sold-in 800,000 PlayStations through the end of 1995. Sega sold-in just half that number of Saturns. And according to the generally respected TRST report from the NPD Group, Saturn went from having a 58% share of the 32-bit hardware market in August, 1995, to having just a 12% stake in September (versus 83% for PlayStation). By December, Saturn's share had increased slightly, while PlayStation's share had decreased. But still, the year-end totals gave 27% of the 32-bit market share to Saturn, and 62% to PlayStation, according to the TRST figures, (incidentally, the 300 Company sold-through a total of 1%, while Atari had sold, statistically, 0% of total units during this same period.)

In the 32-bit realm.

therefore. Sony appears to have enloyed a commanding victory over Sega, especially since PlayStation was only available the last third of 1995. But this (approximate) two-to-one ratio is considerably less than the "total market domination" hyped up by the likes of Sony's former-boss Marty Homlish, who declared in an interview in NG 15 that "we believe we are outselling our competitors by a five-to-one ratio." And, throughout the start of

1996, the availability of exclusive titles for Saturn, like Virtua Fighter 2. and the systems' price parity has led to what is approximately a one-to-one selling ratio between Saturn and PlayStation (according to an Informal survey of videogame retailers conducted by Next Generation).

Indeed, the surprising surge in Saturn sales during the last months of 1995 and the start of 1996 has actually caused many analysts to re evaluate Saturn's current status and

its performance in 1995. While Nintendo's Howard Lincoln (an admittedly biased source), Interviewed on page 6, estimates that only 150,000 to 200,000 Saturns had been sold at the end of 1995 vs. 500,000 PlayStations (a figure which agrees with the TRST data), Ted Lannon of Fairfield Research, quoted in the March issue of Computer Entertainment News, claims the figures for Sony and Sega in North America are much closer. Lannon estimates the number of PlayStations sold to be 569,000, but he puts the current Saturn figure at 474,000 - far closer than previous estimates, or the TRST data, suggest.

So what does it all mean? First off, it's obvious that not all the data agrees. Fairfield's research shows the same trends as the NPD Group's, but without definitive confirmation from the principal companies, there will always be differences in estimates.

More importantly, it indicates that Sega could be doing far better in the 32-bit race than previously thought, and that a strong software surge through latter half '96, combined with any slip-ups on Sony's part, could flip their relative positions quite rapidly. Throw in the expected Saturn price drop and the (promised) launch of Nintendo 64, and it is clear to see that the race for next-generation dominance is far from over

While both Sega and Sony provided sales figures through the winter holiday, both figures were "sell-in" numbers (the number of systems sent to stores). What has not been released is the far more important "sell-through figure (the number of systems actually purchased by consumers). And discovering the actual numbers is extremely difficult. Why? The only people

So why lie?

who really know the sell through number is the hardware companies themselves - and they ain't talking. First and foremost, no company wants to give its information with which it could restructure its marketing campaign Second, no company wants to admit it's missed its target sales figures (which are set bullishly high), Third, no one wants to set a precedent of being open with its numbers, in case it has to try and hide a downturn in the future. But most importantly. videogame hardware hottles are often won or lost on the basis of nerraised momentum The decision made by a developer to support a platform is based on his perception of how successful the platform is going to be 18 months down the line. In turn, the decision to support the platform will have a positive affect on its likelihood of success.

It's a chicken and equ

situation that we all,

live with

unfortunately, have to



favorably at year's end '95 and into '96

surprise for the second year running. Especially considering that "[Sega] tends to announce price cuts at the same time we ounce a batch of new titles," according to a source at Sega who asked not to be identified.



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A monthly look at business news aff shakers

business news affecting the gaming world

by Christopher Sherman



Christopher V. Sherman is the publisher of MMWIRE, the entertainment, MMWIRE ONLINE can be found at Email him at multimediawire@

50-PLUS COMPANIES SUPPORT MOVING WORLDS VRML SPEC.

N E W S L I N E : Fifty-six companies have offered support for the Moving Worlds proposed specification for VRML 2.0 (Virtual Reality Modeling Language), including Chaco Communications, Inc., Adobe Systems, Inc., Dimension X, Macromedia, Netscape, Silicon Graphics, Inc., Sony Corp., IBM, and others.

BOTTOM LINE: Keep an eve on this one folks. With gaming going online, VRMI, might be the glue to hold your next online game together. VRML pundits expect that the proposed specification will enable the development of graphically intense, platform-independent, interactive multi-user applications on the Web, Moving Worlds brings multi-user functionality and interactivity to the hitherto flat VRML world, enabling developers and authors to create layers of media including 2D and 3D graphics, images, video, text and sound. See this site for more information: http://vag.vrml.org/.

ACCLAIM MAKES COIN-OP DE BILT

N E W S L I N E : Acclaim has entered the coin-op market with the debut of Warner Bros. Batman Forever through its subsidiary. Acclaim Coin-Operated

Entertainment, Inc. The side-scrolling fighter, developed by Iguana Entertainment, made its debut with NBA Jam Extreme at ACME (the American Coin Machine Expo). It provides players with the choice to be either Batman or Robin, as they venture through

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Gotham City in an attempt to prevent Two-Face and The Riddler from taking it over.

BOTTOM LINE: The move could bade well for Acclaim as it continues to expand its product base and begins taking some of the weight off its home gaming unit, even if the home product sold poorly. It is usually a good move to have your corporate fingers into more than one market - as long as that market is complementary to your core business. Synergy there's that word again.

BANDAI PIPPIN A SLEEPER HIT?

N F W S L I N F - Bandai Co I td 's Pinnin division. Bandai Digital Entertainment, expects to launch the Pippin Atmark in Japan this spring. The machine is expected to come with four titles and a modern. Bandai's plans call for 200,000 units sold in Japan in the first 12 months and 300,000 units internationally in the first year the machine is sold outside of Japan. The Pippin will debut at E1 in LA this May.

BOTTOMLINE: It's expected the Pippin (based on Apple technology) will be a sleeper hit with consumers. While the machine is not targeted at hard-core videogame enthusiasts. It looks like it will have potential with other consumers. Bandal appears to be positioning the machine as an Internet solution that may win over some believers.

ROCKET, CYBERCASH TEAM FOR ONLINE ARCADE AND CLASSIC GAMES

N E W S L I N E : Rocket Science is teaming with CyberCash Inc., a developer of secure Internet payment solutions, to codevelop technology for payas-you-play Net transactions. Rocket Science plans to use the technology to open a virtual WWW arcade.

ROTTOMILINE: Rocket Science is in turnaround mode and has set its sites on the Net. The company is talking to rights holders of major classics and hopes to have 20 classic games online by the second half of 1996, It's believed that the "rights holder" could be none other than Atari...

TEN READIES TO LAUNCH

N E W S L I N E : Total Entertainment Network (TEN) wrapped up another round of financing for more than \$12 million. Vertex Management, Goldman Sachs, and Ameritech led the round.

BOTTOM LINE: TEN plans to use the money for introduction and roll-out of the service, which will be introduced this spring, Initially, the company will rely on bundling deals to get the word out, TEN certainly has the backing, but now the question is can it perform?



Geme machine? Chees way of gettied on the mpletely different Oaly Readel keows



Rocket Science tees up with Atari? It's o de le heevee. Aed we oe that most siscerely

In a desolate corner of the Underground Empire. AN EVIL DEMON TORMENTS THE LAND.

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The newest games and updates from the coin-op field



the editor-in-chief of RePlay magazine, the US' leading trade amusement magazine

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his name to Sega FECs













of thighs can get you

"Sega Gameworks" Goes Forward with

Speilberg and MCA It's official. As of March, Sega blended its U.S. coin-op division into a joint venture with MCA-Universal and DreamWorks SKG (Steven Speilberg's new production company). The result: a brand-new firm called Sega GameWorks, in which Sega Japan is a partner and shareholder, along with MCA and DreamWorks.

Oscar-winning motion picture genlus Steven Speilberg himself will have a direct hand in designing some new Sega fun sites. Indeed, he has already started spinning out creative business ideas, concepts, and strategies for the joint venture, said Al Stone, former president of Sega's U.S. coin-op side and now one of GameWorks' two chief execs. Look for GameWorks to use a Spellberg concept for new 30,000 sq. ft. fun centers. Like SoCal's Sega City, these two Spellberg-inspired sites will probably share indoor and outdoor mall space with other high-end leisure attractions such as multiscreen United Artists movie theaters, Imax special format film theaters, book superstores, themed restaurants, upscale coffee cafes, etc., all at a single venue. Sega plans to use Speilberg's name as a magic key to unlock entire new countries, new venues, and new opportunities for various types of locations in the US and worldwide

Al Stone also confirmed that at least one coin-op other than Virtua Fighter 3 will use Sega's Model 3 board (which pushes up to 1 million polygons per second) and be released in August or September, although the date has not yet been finalized.

Konami, Matsushita Plan 64-bit Home and Arcade Sister Systems First, Sega did it with Saturn and Titan, Then, Namco & Sony followed with PlayStation and System 11. Now, Konami and Matsushita (Panasonic) are planning to develop sister systems using common hardware platform

elements for the coin-op and home video markets. Under a joint venture arrangement, Konami will employ Matsushita's 64-bit M2 system in the coin-op market. This technology enables game designers to create 3D computer graphics with ease. The motherboard will be released in Japan by the end of 1996; U.S. release date is unclear at press time. "We expect this new business to generate \$200 million or more in gross sales," said Richard Rush, Konami's coin-op marketing manager. M2 was purchased from America's Innovative 3DO firm last October by Matsushita. Konami M2 coin-ons will be adapted to the Panasonic home videogame system where possible, according to sources in Japan. In addition, Capcom will reportedly develop M2-based home videogames as well. followed by coin-op videos using the M2 platform.

ACME Report from the Front

Having attended ACME, the American Corr-operated Machine Expo. we have a good summation of the following and eagerly awaited arcade videogames.

Midway in the Third Dimension

Williams/Bally-Midway came out with its long-rumored War Gods. (This follows months of coy denials and changes of subject by the factory when confronted with official requests for information about this title.) War Gods has a fighting style similar but not the same as Mortal Kombat, within a more impressive graphics environment and 3D texture-mapped polygons. Essentially, War Gods is a 3D version of Mortal Kombat - on speed.

The characters are polygonal, wrapped with digitized texture maps creating a spectacular end result, with real 3D fighting, moves, projectiles, etc. And it's a technological feat as well, no one has ever achieved three dimensional digitized video before. Midway will also have the latest entry in its NBA Jam series, this one called NBA Hang Time, created by Mark Turmell and Sal Divine, the team responsible for the company's previous basketball titles.

Sega and Namco Battle On

The simulator wars continue between the two kings of the arcade hill. Sega showed Virtual On, a two-player deluxe robot combat game where most of the graphic artistry (using the Model 2 hardware platform) seems to have gone into elaborate backgrounds and lighting. Graphics were the strongest point for Sky Target, the one player Sega jet combat game. Namco showed a two-player deluxe tank game called Tokyo Wars, It's a four-player linkable game, so multiple players can blast away at each other on the same virtual battlefield. There are two courses to chose from, and moving, reactive custom seats that push backward with each canon shot.

Konami Enters the Race

Konami's newest racer, Midnight Run, enables players to choose from three courses, selecting their car and choosing the stock or tuned version. (Watch out for the tuned-up jalopies, they're very fast.) You race other street machines through city nightscapes. Using a five-in-line shifter, you can switch back and forth between manual and automatic transmissions as often as you like during the race. Konami proudly claims this as "an industry first."

MANY DEGREE of punishment can your PC SUBJECT YOU TO? TRY 360.



Remember those G-Force carnival rides that whirled so violently someone's little brother inevitably spewed? And that movie where the girl's head spun totally around? Kid Stuff, Because in Battle Arena Toshinden, your PC now hurs abuse at you from all angles, all at once, for as long as you can take it. A 3-D thrashathon reeling off the coolest graphics, nastiest street-fighting moves and seviest characters this side of the 4th dimension, Battle Arena Toshinden puts a whole new spin on gaming. And a whole new warp on your perspective. Because here, the most brutal torture of all isn't getting clubbed, slammed or bludgeoned, it's walking away from the next fight.

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Generator

by Mark James Ramshaw

Can the current trend for publishers to buy up smaller development teams last, and can it possibly be healthy?



colaim's recent buyout of high-profile develops house Probe Software is just the latest in a long line of mergers and buyouts. Increasingly, more and more larger companies are buying up or merging with smaller outfits. It would seem that fewer, bigger companies now make up the game industry — compared to the multitude of small, independent developers that made up the business a few short years ago. The buying up of creative talent by companies with large pocketbooks is an alluring concept. viding a potential mix of financial muscle and creative ius. But is there a danger here that good ideas will be stifled, high-value licenses will once again be the most valuable commodity, and that safe concepts will be favored over potentially more exciting, though risky ideas? Are we entering a new bland era, like that of the movie industry?

As a consequence of such industry changes, Peter Mohineux at Bullifrog (which recently sold out to Electronic Arts) foresees that "we're going to see less original products getting melessed." Yet Bullfrog's deal with Electronic Arts last.

Artis foresees that, "wo're good to see less original products getting missions," but failingly, and institution in the production of the good products of the production of t

BTOWING GOES, incovers, see a colution. "Without but south came inclinately sold from a private consumer to form new indicates shall give an a third is written as given down any, forming their commands against an asset, forming their companies against an loss seen time and time again period cassives. Broad Perry at 19th, Entertainment, and period cassives in broad Perry at 19th, Entertainment and period cassives in broad Perry at 19th, Entertainment and period cassives in broad Perry at 19th, Entertainment and period cassives in broad Perry at 19th, Entertainment and period cassives and period cassi

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The Electronics Entertainment Expo, a.k.a. E3, is, for all practical purposes, the main game industry event of the year, and will make its appearance at the Los Angeles Convention Center from Thursday through Saturday, May 16 to 18, when all of the biggest game companies will be there (Sega, Nintendo, Sony, Time Warner, Atari, the 3DO Company, EA, Matsushita, etc.) showing the newest games. newest systems, connectivity technology, arcade games, virtual reality (you name it, kid, they have it). This show is a must. For more information, please call 1 (415) 349-4300 or 1 (800) 315-1133, or e-mail http://www.mha.com/e3/. And for travel arrangements, please call 1 (800) 361-8191.

Orlando Consumer Electronics Show '96 (CES) will occur from May 23 to 25 at the Orange County Convention Center, Orlando, Fla. This is the big she bang in terms of electronic gadgets, new systems, stereos, walkie talkies, phones, CD-ROM and DVD developments. games, Internet/online services, and computer hardware, and well, face it, it's all there. The Orlando CES is open to the public. FAX: 1 (703) 907-7690. Call Travel Planners, Inc. at 1 (800) CES-5655 or (212) 532-1660 for travel arrangements, or e-mail housing@aol.com.

The first annual I-Magic Awards Festival has been moved forward and will be held this June 17 through 20 (not April 17 through 18), at the New York Information Technology Center, New York, NY, This event provides achievement awards for excellence in consumer relevant categories. Contact Bonnie Harper at 1 (212) 431-8923.

PC Expo in New York will host the inaugural WEB.X, the Internet Event for Business, Tuesday through Thursday, June 18 to 20 at the Jacob Javits Convention Center in New York. Featuring Internet, World Wide Web, e-mail communications, and more, this show is important for net junkies and business professionals. Contact the Blenheim Group at 1 (800) 829-3976 or 1 (201) 346-1400.

AMOA the Amusement and Music Operators Association, will hold its annual event this year from Thursday to Saturday, September 26 to 28 In the Dallas Convention Center, Dallas, Texas. This event is open to the public, and will show the newest arcade games, redemption games, virtual reality games, pinball machines, jukeboxes, etc. the industry has to offer. For more information please contact Fred Newton at AMOA, 1 (312) 245-1021; or contact amoa@sba.com.

IAPPA, the International Association of Amusements and Attractions is like a hig amade show except for the big simulators, rides, and amusement attractions, for which it's famous. Open to the public, it's held from the 20 to the 23 in New Orleans, LA, at the New Orleans Convention Center. Please call 1 (703) 836-4800.











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Back issues of Next Generation are rapidly becoming collectors' items. A complete set is also an invaluable reference guide for anyone seriously interested in videogames



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 Tom Kalinske (Sega US' president) • Does PlayStation live up to the hype? • What's wrong with the PC? (Part one). Can PC gaming survive? . Making tracks (ake the noble art of game music) . Virtua Fighter: Saturn's fighting chance profiled



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VEXT GENERATION

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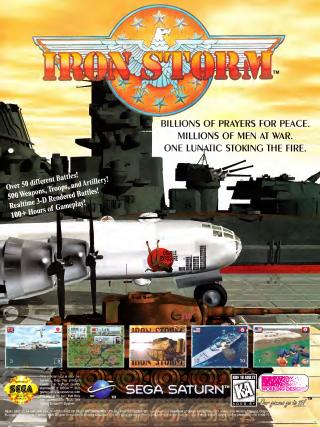
















Videogames "speak" via images on a TV. Twitches of a game controller make up the language with which players "speak" back. It's a basic dialect, but interactive entertainment would be impossible without it. And it's about to change forever...

G

ames have made paradigm shifts in the past 24 months into

polygonal, 3D, texture-mapped, photorealistic, multiplayer interactive experiences. Meanwhile, the evolution of the best mechanism for controlling games — the joystick – has lagged. All that is changing now, as joysticks ready for their own launch into the next generation. In this definitive Next Generation report, who was not the control of the property of of the property

The term joystick (which yes, was originally a slang term for penis according to Websters' Dictionary) came into nonvulgar use at the dawn of aviation in England to describe the airplane flight yokes that controlled the elevators and ailerons of the craft, and were located between the pilots' legs. The first use of a "joystick" device not directly related to the control of an aircraft came during World War II (the same conflict that spawned the precursor to the digital computer). During the war Germans used joysticks to

control experimental bombs, and after the war ended, joysticks became standard equipment for controlling unmanned test flights.

"German pilots experimented with wire-guided plide-bombs which they controlled with joysticks," said Paul Potera of the Strategic Development Division of ThrustMaster, a leading joystick manufacturer. "They were launched from bombers and had flares so that the Germans could see a little red dot which they guided down to the target" Since that time, the word has come to refer to any controlling device involving a stick which moves in at least two directions even when that "stick" may be a flat, crossshaped toggle-switch --- more commonly known as a joypad. Nowadays, as far as common language is concerned, the term joystick refers to any nonkeyboard device for controlling a computer game,

nonkeyboard device for controlling a computer game. The first computer game joysticks were made in

1961. That was the year Steve Russell, a member of the Tech Model Raliroad Club at the Massachusetts Institute of Technology (a haven for the first computer hackers), created the first computer game SpoceWor. SpoceWor was











roller, for the Meg



your car turns.

discussing joysticks, it is essential to note the distinction

between analog and digital. Analog joysticks are controllers with continuous and varying "resistive value." In simple English, the joystick can detect degrees of movement, as opposed to the simple "on" or "off" of a conventional joypad. In terms of videogames, this translates to a situation in which the farther you push an analog stick, the faster your character moves or the more sharply

The steering wheel of a car is a good example of an analog input device. To merge into another traffic lane you turn the wheel slightly. You turn more sharply to go around a corner. To make a U-turn, you must spin the wheel as far as it will go. When pushing an analog joystick, a potentiometer (a variable resistor, like a volume knob) changes the amount of current running from the stick to the computer, enabling the computer to know exactly how far and in what direction the joystick has been moved. It's then a simple matter to translate this into game instructions, Also, by interpreting how fast it took the laystick to get from one intensity to another, additional effects - such as momentum - can be introduced to a game's mechanics.

If all this sounds

sophisticated, that's because it certainly can be. But don't assume that analog technology is necessarily complex, or indeed new. The old "paddle controllers," which drave Pang and games similar to it, are also analog devices, but with just one potentiometer able to control motion along only one

axis (from top to bottom). "Analog joysticks have been part of the PC scene for

10 or 15 years, and they really haven't changed much in that time," says Scott Schulte, a product planner working in the Advance Consumer Devices Division of Microsoft, "They had two buttons, now they have four buttons; but the technology inside is basically

Up to 17% of a CPU's power must he dedicated to continuously checking the state of an

analog joystick

the same," The disadvantages of analog joysticks, unfortunately, outweigh many of their advantages over digital controllers. Because they have such a huge number of possible positions, up to 17% of the CPU's processor power must be dedicated to continuously checking the state of the joystick. And this, unsurprisingly, can adversely affect game speed. Also, when using the standard PC game port, only four buttons, the stick, and a throttle can be

supported at once, or two sticks with two buttons each Still, analog controllers are the norm on PCs, and work well in situations that need precise control, like driving games, flight sims, and even

Pang (try it: Pang or Breakout with a digital

controller is an exercise in extreme frustration). In contrast, digital

game controllers (such as the Saturn's and PlayStation's) feature the all-or-nothing language of binary notation. There are no varying degrees in digital signals; everything is black or white. The jeystick senses if the stick is being pushed in a particular direction and passes that information on to the computer. To make Sonic or Mario run to the left, you press the left side of the D-pad. You cannot make either of them run faster by squeezing harder; they either move to the left or they don't. That's it. Clever programming and the timing of how long a button has been pressed can give the illusion of greater control (hold the left button down, and Sonic will accelerate to a run, tao the button and he will take smaller steps, for example), but the limitations are still huge. Digital joysticks and

lovpads work the same way modern calculator buttons or computer keyboards do. On a printed circuit board in the casing there is a disconnected pushed in a certain direction, a small round pad made of conductive material presses down, completing the circuit. and sending a signal back to the CPU. This is also the way

a joystick's fire buttons work. Digital controllers are excellent for fighting games

and two-dimensional platform games, but they are less than suitable for driving or flying games (as anyone who has "tap turned" through a game of Ridge Racer can tell you).

The chief advantage of digital controllers for videogamers is that they are less expensive to build and more sturdy than analog joysticks. Also, on the PC anyway, digital joysticks don't suck processor power the way analog sticks do. Instead, the digital stick updates the CPU on its position every eight milliseconds, so more processor cycles can be devoted to the business of running the game itself.

A third control

technology has not yet been utilized in many game control devices, but this is likely to change over the next two years. The mouse (and some trackballs) use a method of control which has elements of both digital and analog sticks, and is similar to the method used by Microsoft's new SideWinder stick. Instead of using a potentiometer, the mouse uses an optical system. en the mouse ball moves, it spins one or two drums. Inside the drums are LEDs. As the drums spin, the light from the LEDs shines through holes in the drum to a light sensor which then sends data back to the computer. Based on the speed and direction in which the drum spins, the curser moves appropriately on the screen. This enables extremely precise control using a more sturdy, cheaper digital mechanism. One which also

It is rumored that the Nintendo 64 pad employs a similar technology. If so, it is sure to be simply the start of many. PlayStation and hopefully look forward to similar innovations.

needs no calibration

a two-person simultaneous. competitive shooter, which featured controls almost identical to Asteroids (although, it being MIT, the game featured authentic star maps for the backgrounds and a couple of other hyper-realistic elements. including a deadly sun with real gravity and missiles that - in early versions at least - failed on a random basis). He built the same on a Digital Equipment PDP-1, and used toggle switches built into the computer readout display to control the game. To go left, for example, the player actually had to turn a "go left" switch on, then off again - a very

cumbersome procedure. Making matters worse, to use these switches, players had to lean forward on their elbows which proved to be an extremely uncomfortable and clumsy position from which to play. In an effort to make SpaceWar less painful, two of Russell's fellow hackers, Alan Kotok and Bob Saunders. scrounged spare parts from the model railroad clubhouse and created the earliest descendent of today's game controllers, a small box with switches and buttons on top.

"The basic version [of SpaceWar] was played off toggle switches on the console, and your elbows got very tired." Russell remembers, "Most people eventually ended up wiring in push buttons. The PDP-I had a bunch of plug boards in the back that you could wire into, so it was a matter of punching in a few wires to hook up switches as input." he adds This step, replacing

uncomfortable toggle switches on a panel with push buttons on an easily reachable box was the first step in the evolution of the modern game controller. designed to give maximum control with minimal hassle. Why hasn't SpaceWar

received the accolades it

deserves as the forefather of videogames? Russell remembers the Digital Equipment PDP-I on which SpaceWar was run as selling for around \$120,000, far too expensive to create any kind of consumer game. Though later Digital models such as the PDP-6 came with SpaceWar already installed (it was used by Digital as the memory test), the game still had a very limited audience.

It took the coin-op videogame revolution of the 1970s to bring joysticks to the mass market. Though Pang, the first commercially viable coinoperated video game, did not have joysticks (it worked with a one-dimensional paddle) a few other Pong knock-offs such as Paddle Ball did. Shace Race, one

of the early Atari arcade games, Yes, according to Websters' Dictionary, the term "joystick" was originally

a slang term for the penis

also used joysticks. loysticks took a similarly long time to reach widespread acceptance in the home console scene. The first home systems, such as the Magnayox Odyssey 100 (an analog videogame system) and Home Pong, were dedicated ping pong machines controlled with twisting knobs. It was only by the time the Atari 2600 Video Computer System (VCS) reached its apex in the early '80s that there were three main ways to play videogames: with a paddle (Pang); a push button (Defender); or a joystick (Pacmon). And it soon become abundantly clear that the ioystick-plus-button(s) combo was clearly the most flexible and intuitive (and hence

dominant) control mechanism for electronic games, a situation











ssie Atari 2600 contr rd for 2600 BASIC carl











that remains to this day. There were still a few subtle evolutionary steps, however, between the joysticks of then and the game controllers we play with today. In 1980, while most of the industry continued using standard variations of the joystick, Nintendo introduced a patented four-way directional "pad" on one of its earliest consumer electronics products. Game & Watch. It holds the patent on this type of directional controller to this day. In 1981. Bandai Electronics used a similar controller which it called an "eight-position action button" on a handheld game called Space Chaser.

Although directional pads were initially developed because they were more compact than joysticks, it was discovered that they were also much more comfortable to use. While a full-sized joystick worked great in the arcade, holding a smaller loystick in your hand for hours at a time tended to cause cramps. Perhaps the designers of the Mattel Intellivision took this into consideration, since theirs was the first home console system to use a direction pad. which they called a "control disc." Mattel executives said it had the "functionality of both a joystick and a paddle." It didn't, but that's beside the point. Meanwhile, the Atari 5200

introduced a hold new development in joystick technology, a joystick that did not snap back to a center position when it was released. It was not even a mild success. In fact, it was perhaps the biggest failure ever in game control, if not videogaming in general. The Atari 7800 controller featured a long, slender base with a stick at the top, designed to keep hands from cramping. Again, nice try, but the stick hurt one's hand almost as much as the 2600's clunky design. ColecoVision

had no less than four controllers available for its system, from a mini-joystick to a steering wheel, a trackball, and a larger "super action controller," which was a unit featuring a handle with trigger buttons, a keypad, and a small joystick on top. Which console had the best joystick became an academic concern after 1983. when the market crashed and gamers deserted in droves to personal computers.

Even when videogames did re-emerge with the NES and then with the Super NES and Genesis 16-bit era, the loypads were essentially the same. Sure, the Jaguar and Super NES added considerably more buttons, but the basic joypad format had been established.

It took the coinop videogame revolution of the 1970s to bring iovsticks to the mass market

Even the 32-bit era of controllers (PlayStation included) are merely reworkings of the same basic design that Nintendo patented 15 years ago. Imagine how dull videogaming would be if graphics or sound had improved so little over the same period?

On the PC side. keyboards and joysticks have traditionally remained the only game controllers of choice for computer players. In fact, until the latter half of the 1980s. most computer joysticks still had the same stem-and-swivel design used by the Germans in World War II.

More importantly than just in design, computer and console joysticks differ fundamentally in the way that they give information to the CPU. Until very recently, most console controllers were

digital, and most PC controllers were analog (see page 36).

Microsoft inadvertently set the direction of personal computer peripheral design forever with the release of Flight Simulator, More than any earne before it. Flight Simulator demonstrated both the PC's ability to handle realistic flight simulations, and the standard joystick's inability to handle all the range of player input needed to get the most out of the software. As more sophisticated flight simulations hit the market, CH Products. ThrustMaster, and a slew of competitors released more realistic controllers, lending an "aviation bias" to the whole PC joystick industry that continues to this day. In 1987, CH released the

Flight Stick, which was, for the time, an extremely realisticlooking analog joystick. In 1990.ThrustMaster released the Weapons Control System, a throttle with programmable buttons that replaced keyboard commands. Later that year an engineer at ThrustMaster named Frank Bouton designed the first joystick with the oddly titled "coolie hat," a four-way button at the top of the stick used for targeting and sight control. The coolie hat was included on the Mark I, ThrustMaster's first joystick. Capitalizing on the hot flight sims market, CH Products released the Flight Yoke. The Flight Yoke, which looks like the yoke of an airplane, was wonderful for Microsoft Flight Simulator and driving simulations, but not well suited for military flight games.

With the increase in the PC's penetration into LIS households, the pace of advancement in PC joystick technology has quickened.

"The industry has really moved forward the past two or three years," says Greg Stearns, CEO of CH Products. "Consumers are saving three

EXT GENERATION

things: First, 'we want functionality'. Second, 'we want realism: And third, 'we want programmability.' To that end CH Products, Thrustmaster, Logitech, and SunCom, the leading PC joystick manufacturers, have all been serving up ever more realistic looking sticks and throttles (and foot peddle rudders) with more and more customizeable butterer on the better or the butterer or the street of the programma of the

"What we have done is tried to look at the needs fof the consumer] from a realistic point of view," maintains CH Products' Stearns,"and that gives us the joystick, the throttle, and the rudder peddle. You may say 'Gee, that's an aviation point of view, and to a certain extent you're right, but if you look at how you can control a game, there are only a couple of ways to do it. Until you start having speech activated games, you're going to be stuck doing things with your hands and feet

"So, we think, that's the ultimate system right now: a controller for the hands, translation: a joystick and throttle; with a foot controller, translation: a peddle."

He's right, of course. It's worth realizing that the military and seromautic industries have spent many years and many billions of dollars working out how complicated machinery can be best controlled by human bodies. They came up with the joystick/pedal system — so why shouldn't the game industry copy the experts?

Süll, other specialized peripherals have evolved. In 1993, Sports Sciences released the Pro-Swing, a laser golf club that works with Access Software's popular Links golf games. In the beginning of 1994, Thrust/Haster released the Formula T-1, a steering wheel and foot pedals for driving simulations. Last year Thrust/Haster also released the Wizard, a peripheral for playing.

computer pinball.

You can even buy digital, Ninctendo-style game pads for personal computers. The Gravis Game Pad, one of the first and probably the best PC game pad, has enjoyed steady alse for several years. As companies like Capcom, Sega. and Williams port arcade games to PCs, these controllers will see even faster sales:

As more and more powerful computers have become prevalent in the home, and the 32-bit videogame era has replaced the old 16-bit consoles, the pace of joystick innovation has increased on several fronts, particularly over the past 24 months. It had to. While standard digital joysticks

Nintendo introduced the four-way "pad" with its Game & Watch series. It holds the patent for this

type of controller to this day are fine for side-scrollers, and analog sticks are great for traditional flight sims, new paradigms of gameplay are starting to emerge. Paradigms previously held back, perhaps,

by the lack of appropriate control mechanisms. What good is it to have a 3D world if you have to explore it with a 2D controller? And increasingly, designers are starting to question the point of a hyper-realistic driving sim if you that the control is the point of the property of the control is the control in the control in the control is the control in the control is the control in the contr

When creating a new mechanism of control, the old chicken-egg catch-22 is that no one wants to develop for a

taken in control

new controller until it has a substantial installed base of users, which won't gain, of course, until there are some killer games which take

advantage of it. Surprisingly, the best hope of defeating this victous circle lies with a company perhaps known more for co-opting others' technology than for creating its own - Microsoft. The DirectControl API in the game development SDK for Windows 9S lends itself to the support of innovative control mechanisms. The importance of this really cannot be overstated. By having Microsof provide the driver for new . controllers, a programming hassle is eliminated, and a notential installed base of more than 10 million Windows 9S owners is handed to joystick developers on a plate. With the possible exception of providing a standard for 3D graphics acceleration, the enabling of novel control mechanisms is one of the best features of Windows 9S, and one for which Microsoft deserves

Another reason that Microsoft is especially eager to talk about loystick innovations these days is because now it has one, too — the SideWinder 3D Pro. This new stick uses an optical technology Microsoft says provides faster and more dependable game control.

serious credit

Microsoft has removed the gears, resistors, and potentiometers (think of them as volume knobs) used by ThrustMaster and CH Products and replaced them with a light emitting diode (LED) optical system. Tiny photosensors, placed in the base of the SideWinder 3D Pro, track the position of an LED on the bottom of the joystick and translates these movements into electronic impulses. Although similar to the way a mouse works, the method is a unique, patented design, According to Microsoft,











The original NES pad, Mattel's PowerGlove VR toy, the four button NES Wizerdry controlled the Thrustmostar joystick, and the button-laden throttla unit











this optical system is both faster and more dependable than potentiometers, while enabling it faux analog or digital functionality in one stick without the processor overhead or limited number of buttons of a true analog stick.

In typical Microsoft style, the designers of the SideWinder 3D Pro have also packed it with an unending list of features, some of which are impressively innovative. The stick twists as well as swivels. enabling it to perform some of the functions of foot pedal systems like the ThrustMaster Rudder System. It also has a lever that works like a throttle.

Although the SideWinder's simple lever cannot perform half the functions provided by sophisticated throttles manufactured by ThrustMaster and CH Products, and the twisting motion cannot equal the fine sensitivity of true rudder pedals, it's a good start. Additionally, it only costs about 25% of a full ThrustMaster or CH Products set-up with joystick, throttle, and pedals.

Meanwhile, Sony and Sega both have released or announced analog control sticks for their next-generation platforms. Even third parties. like Mad Catz, with its PlayStation analog steering wheel, or Namco, with its bizarre twisting Negcon, are getting into the analog act.

On the PC, Advanced

Gravis is taking its PC game pad technology to the next level with its Gravis Interface Protocol (GrIP). Basically, the system looks like an L-shaped multitap, with six ports on it, four for custom Gravis pads and two pass-through analog ports (for traditional PC ioysticks). The GrIP is a fully digital interface which enables four players to compete simultaneously on a PC, using eight-button pads. Although the GrIP sounds deceptively unimpressive to console

gamers (and we still maintain that anyone who hasn't experienced four-player Super Bomberman 2 on the Super NES hasn't played a videogame) it's revolutionary for the PC, and should help usher in a new era of multiplayer PC games.

The most impressive steps toward analog control on a console system, however, have come from Nintendo, for its forthcoming Nintendo 64. Indeed, it is Nintendo 64's sophisticated controller that excites Nintendo President Hiroshi Yamauchi most about his new baby. At a speech he gave after unveiling Nintendo 64. Yamauchi told the press that "If you [the press] think this is just another controller, you

Game designers are starting to auestion the validity of a hyper realistic driving sim if you can only see and hear — but not feel — the action don't know anything about

videogames." Serious stuff. One of the things that makes the Nintendo 64's "Bata-rang"-shaped controller so special is that it has both analog and digital functions. This three-handled controller has a traditional Nintendo D-pad over the left handle and a

thumb-sized analog joystick

over the center.

lost without it.

"There are three types of directional devices on this controller," says Nintendo's Genyo Takeda, whose R&D3 team created the device. "One is a cross-key. It's the conventional device Nintendo invented. Many people tell me it's kind of common sense to use." Indeed, a whole generation of gamers would be

"This is the Famicom position - Super NES position - using the crosshair," Mr. Takeda explains as he holds the controller by the outside handles. He goes on to hold the controller by the left and middle handle and then by the right and middle handle. "You can also hold it using the left position and using the right position. Each way gives you a different kind of controller, so we will probably [explain which controller position to usel in

each game," he says. Typical of Nintendo's tight-

lipped security, Mr. Takeda

refuses to reveal much about the inner workings of the new controller. He admits. however, that the center joystick is not really analog by the strictest definition of the term, but that it has been engineered to emulate an analog joystick. Next Generation was unable to confirm at press time (we didn't have one to take apart) rumors that Nintendo 64 "analog" controller is actually an optical one, like the

Microsoft SideWinder.

R&D3 experimented with several game controllers before settling on a final product. "We tried many different types [of controllers] and prototypes and we threw them away," says Mr. Takeda. This is not surprising. Along the way to any high-tech revolution (and game controller technology is no exception) there are always evolutionary dead ends and products introduced too soon for their own good.

According to Mr. Takeda,

"We tried a motionsensor wristwatch," explains Mr. Takeda. "We even went so far as to make a prototype and applied for a patent. Everything was good. But players didn't understand the internal mechanism and they had trouble controlling it, so we abandoned it."

Indeed, the road forward in game control is littered with the wrecks of failures. If the Atari 5200 was the first massive commercial control failure, it was certainly not the last. Sega tried for budget "VR" appeal with its Activator, a hexagon device that sat on the floor and (supposedly) sensed body movements (such as punching and kicking), translating them into game commands. In addition to making the user look like a fool, it worked woefully inaccurately and was supported by only a few dedicated titles.

Another glorious failure was the DataGlove, from Mattel. It was another "VR" controller that certainly looked cool, but didn't really offer anything more than a regular Super NES pad (in the way of game control, at least). In fact, it did less, making it a cumbersome, inconsistent novelty. Still, years later however, the data glove concept refuses to die. "We've taken a look at a data glove," admits CH Products' Stearns, "but it's so doggone expensive that until the price comes down, it just doesn't make a lot of sense."

Perhaps a more damaging control failure was the CyberMan, from LogiTech. Although it was nominally a six-degrees-of-freedom controller (a device capable of controlling objects in real 3D space - up and down, as well as north, east, south, and west) it was expensive, poorly made, and largely unsupported. At the Computer Game Developers' Conference in March, 1994, LogiTech literally could not give them away.

The failure of the CyberMan probably set the adoption of 3D control in the guise of six-degrees-of-freedom joysticks back several years. "A lot of people spent a lot of money [on the CyberMan]" says Stearns. "They got screwed and they're kind of

saying, 'I'll never do that again.' "A six-degree-of-freedom joystick is a good idea," Steams continues. "but until you can refine it a little bit better and then convince the public that it's something it should have, then it will never really sell. So the next one that comes out on the market has to be very well thought out and it has to work really well," he concludes.

So, true 3D control remains elusive, which is somewhat disappointing, considering that back at the dawn of videogaming the Fairchild Channel F (an obscure Atari 2600 precursor) had a controller that - technically at least - offered six degrees of freedom. (There were,

A more damaging control failure was the CyberMan. At the 1994 Computer **Game Developers** Conference. LogiTech literally could not give them away

however, no games that took advantage of this ability: But this was not a surprise, since its graphic ability paled even next to the 2600).

Still, we are getting closer. The PlayStation controller, impressive because of its ergonomics alone, has a set of four shoulder buttons arranged in a two-by-two matrix, which enables it some rudimentary 3D control when paired with the D pad. The diamond shape of the standard buttons could be easily used as another D pad for 3D control as well.

But more than any other advance in controller technology, force feedback joysticks promise to open up

whole new ways of experiencing a video or computer game. "It's basically a joystick that is an input device, like a traditional joystick, but also an output device - the computer can command forces to the joystick handle and create a while variety of different sensations." explains Louis Rosenburg, president of Immersion Corp and designer of Immersion's force feedback technology. How does it work? "There are actuators [mechanical devices] on each of the axis," explains Rosenburg,"so the computer can independently command a force to the X or the Y axis. It's much more sophisticated than a traditional joystick. It has its own microprocessors. actuators, power, and electronics to drive the actuators. Essentially, it's a robot. Indeed, the best way to think of it is as a robot that

looks like a joystick that sits on

your desk," he adds. Exos and

some others are also working

on force feedback devices, but

at press time, only Immersion

has inked firm production deals with leading manufacturers. To understand how it feels to use this kind of controller. imagine that you're moving a dot around a TV screen (as in one of the simple demos Immersion has developed to show off the technology). Also imagine that on the screen are several "springs" (triangles touching end to end). As you move the dot against the spring and press "down" you begin to feel resistance from the stick. which changes in a realistic way as you push further down on the spring. The force also changes depending on the type of spring. Another demo puts a "puddle" (a blue circle) on the screen. Moving the dot around most of the screen feels exactly as you would expect, like moving a mouse pointer. But when the dot is in the puddle. moving the stick produces a

sensation identical to that of











tha F-16 Flight St CH a clunky Jaguar pad w pad, and a Japanasa Saturn par











stirring paint. It really has to be felt to be believed.

In another demo, players control a paddle, à la Pong, with one key difference - the paddle is made of "rubber" and the ball bounces from it. The further it bounces, the more reactive force you feel when it hits. The combination of visual cues with physical ones makes the experience more truly immersive than any advance in graphics or processor technology Next Generation has seen. Playing two-player Pane with force feedback ioysticks enables players to go out and physically wrestle with an opponent for the ball. Even with extremely simple line

The technology exists for an entirely new type of game, where feel replaces graphics as the premium experience delivery mechanism

graphics, force-feedback Pang beats anything the 32-bit systems can offer on their own — in terms of true immersion and a feeling of realism.

"Basically the simplest game in the world becomes very. very interesting when you add force feedback to it," says Rosenburg. This could be the understatement of the year Certainly, the effect is much less impressive when outlined on paper than actually experienced. When described active feedback, most people instantly think of arcade controllers (such as Daytona USA's steering wheel) that offer resistance to turns and shake when you crash, or guns that stutter with each shot. True force feedback can handle those tasks easily, but it

provides much more than that.

"The way current joysticks work in the arcade, they're not really doing modeling of sensations, they're just sending out this canned routine that the player feels," says Rosenburg. (For example, the Daytana player gets the same "jerking" every time he hits a wall, no matter how fast he's going or what kind of wall it is.)

"What we can do is really model the dynamics of what it should feel like when a can bumps into a wall, or when a ball hits into a paddle," he adds. "Our device has far higher performance. It's sort of like the difference between the fidelity of a Sound Blaster where you can create music as opposed to an old PC speaker that just makes buzzes and beens. We can simulate the real physical dynamics of anything: gravity, a texture, a spring, a rubber band. We can simulate mathematically what those things are like so it will feel real, exactly like a real spring or rubber band or whatever," he concludes.

CH Products' CEO Gree Stearns sees active force feedback as the next level in computer games. "Right now we amaze the eyes and the ears. Now with force feedback. we can add one more thing to the list of "feel goods."

Not only will this technology enhance existing games - enabling you to feel the road conditions in Sego Rally or Ridge Racer, or turbulence and g-forces in a flight sim, it should open the way for entirely new types of games, where feel replaces graphics as the premium experience delivery mechanism. Gamers can then look forward to a true revolution in gaming. And then the next sten?

"You don't have any smell things out there," ponders Sterns, "Maybe there will be software you can smell. I doubt it, but..."



he joystick you see on the right is a prototype from Immersion Corp. for a force feedback

joystick. At least one major PC joystick manufacturer plans to have a joystick based or Immersion's force feedback technology on shelves by the end of 1996. Even Sony, Sega, and Nintendo are considering licensing deals, although it will be a while - probably at least until 1997 -before we see force feedback-based peripherals for console systems. Microsoft is also extremely interested in the technology and will probably be incorporating drivers for the device into the DirectControl API for Windows 95.

We spoke to several game developers to gauge their enthusiasm for this new technology. According to Thatcher Ulrich, vice president of software at CyberGear."I think it's great stuff. It adds a whole dimension of tactile feedback which we really haven't had before except in some arcade games.

Shiny Entertainment's David Perry is worried about price. though. "I think it's great and I'm all for it - I'll back it 100%. But the question is, will people buy it? People will not pay \$150 for a joystick. It's not that they shouldn't, but they won't -- not in a million years."

Randy Breen, executive producer at Electronic Arts, sees the stick bringing more people into games. "There are a lot of people who [find games] too difficult and they give up. If, however, they have some other sensation that allows them to control the car more effectively its going to make the game more enjoyable for more people."

Anyone interested in getting the force feedback API for Immersion's joystick should call Immersion directly at 1 (800) 893-1160.

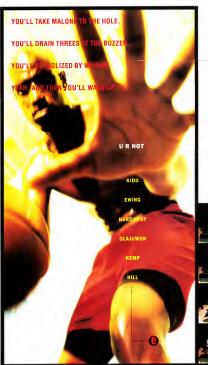






The Grovis PC stick, the Saturn analog flight stick, the Microsoft SideWinder stick, on IR cordless joystick for tha PC, and the

immersion force feedbeck joystick featuring pistol grip. Visible underneeth joystick ere ectuetors. The beery base anchors the unit to keep it from



- Shoot -

Okay, rookie. Here's

all the 3-D realism,

other wannabees-uh,

the basketball game





your chance to go up against the big boys. Play for an entire season. Find yourself man-to-man with intensity and sweaty, stirky action of playing in the NBA. And, with Multi tap, you can even link-up with seven we mean players, too. With over 300 NBA players and real plays, NBA Shoot Out is, without a doubt, of your dreams (which, let's face it, is as close as you're ever gonna get to the real thing).





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Second-generation PlayStation Capcom multi Time Gate PC Time Commando PC Tomb Raider Saturn Decathlon 3DO Devil Summoner Saturn Red Baron II PC Die Hard Trilogy multi Iron Rain Saturn



Game previews, perhaps too intense for young children



s Sony holding back, or has it shown us all there is to see? This month we take a look at Tenka, plus Wipeout 2 and other notable titles in the PlayStation's second wave. Not wanting to be accused of blas (altern), we've also got Fomb Raider, Devil Summoner, and Magic Knight Rayearth, three interesting titles that push Saturn in new untried directions

48 Tenka PLAYSTATION

The game that could actually make Doom-style action fun again, without actually being like...

50 Formula One PLAYSTATION

The slickest, best-looking racing game yet for

PlayStation, and it's got an official license

53 Sentient PLAYSTATION

You play hero/detective on a space ship set to fall into a sun. Can you avert disaster?

53 City of Lost Children Pc

Beautiful cut-scenes and a fantastical 3D world bring gamers into a new, intimately bizarre world

54 Destruction Derby 2 PS-X

The PlayStation seguel - for everyone who didn't get in enough car smashing the first time around

55 Wipeout 2 PLAYSTATION

The sequel to one of PlayStation's hottest firstwave titles blazes on with more of everything

56 Zombieville Pc.

in a title Psygnosis hopes will horrify PC gamers

56 Power Soccer PLAYSTATION

With special moves, and arcade and realistic modes, this new title shoots to vie with FIFA

60 Powerplay PLAYSTATION

Virgin's newest hockey title is fast and furious and full of the smooth action that gamers love

63 Devil Summoner satura

released in Japan comes to the US



One of pamino's most prominent companies talks

71 Time Gate Po

about its past, its future, and Resident Evil The makers of Alone in the Dark return with another smashing graphic adventure

French design house Adeline brings us a 3D

graphic adventure with style to spare

The most macho hero ever to be modeled by polygons hits the Saturn, and hits it hard

77 Eurit MULTICONSOLE

is the world ready for a high-tech reworking of electronic tag? Maybe, but only if it's this good

78 Decathlon 300

Armchair athletes get a chance to do more than just watch the Olympic games

80 Magic Knight Pe

Working Designs imports a very Japanese RPG and develops it into something uniquely American

The sequel to one of the most popular PC flight sims is here. Was it worth the wait?

84 Diehard Trilogy MULTI

An interview with the designers at Probe reveals he ins and outs of working with 32-bit systems

86 Iron Rain SATURN

Assault 'mechs arrive in full force as Sega imports one of Japan's most high-profile titles to US shores



Tenka

It's the smoothest 32-bit 3D environment yet seen. An exclusive Next Generation report



enke feetures one of the collect cyberpunk rotagonists yet seen, and e bunk of weapons but, of course ...

enka, the working title of Psygnosis' forthcoming first-person shooting game, looks destined to be rivated only by Id

Software's own Quake as the year's most amidgased first-general shorting game. The first of more than two years in development, Persist 30 engine is complete and running smoothly. It's now just a matter of designing all the levels and introducing the enemies. Foncis's sentier programment, Marris Landkaut, between to point out that the game is still at a very early stage of development, and that the screen-short you see here the finished game will look like. Next. Generation talked with Marris at Central stage of the company of the control o



Format:	PlayStation
Publisher:	Psygnosis
Developer:	Psygnosis
Release Date:	Early 1997
Origin:	U.K.

NG: At what stage of the development process is Tanka right now? Marrin: It's only about 30% complete. We have all of the emirrorment display system in place, along with character display and centrol: It's now making a case of plugging in environments, populating sheem with characters, and implementing the puzzle. In plugging the environments, or populating sheem with characters, and implementing the puzzle. See the process of the puzzle of the p

Martin: Wipeouf and Destruction Derby were very technically accomplished for helr time, but they did not utilize all of PlayStation's inbuilt features. There was no relatime light-sourcing, or Gouraud shading, for example.

NG: Do you feel that the ease with which many novice developers have been able to get respectable results from the PlayStation is an indication of the system's lack of complexity?

Martin: The tack of complexity of the PlayStation's development environment, is by no means a limiting factor. It basically means that new developers can get up and running, and producing reasonable software in a short amount of time. Meanwhile, the more accomplished developers don't have to warry about programming trivial pieces of code and can get down to more complex time-consulting to complex. time-consulting to without "Wipeout and Destruction Derby were technically accomplished for their time, but they did not utilize all of PlayStation's inbuilt features"

uics





The Tenke teem has spent two years developing end refinit its Softimage-based 3 engine. Now it's just simple metter of designing the levels









Only when you see Tenke moving cen you really eppreciete how besic the Doom world reelly is. With curved surfeces en multiple ceilings, Tenke really reises the stakes

It eating into their deadline too much.

Reinrais game engine — even at
this early stage — is generating the
most impressive realtime 3D worlds yet
seen or PlayStation. How have you been
able to achieve this?

Martin: Normally, with realtime 3D
game engines, the source of the

Martin: Normally, with relations 31 game engines, the source of the environments is a custom written 3D environments is a custom written 3D environments is a custom written 4D environments is a custom written 4D environments in the state of the state o

This basically means that the system is written so that the programmers accommodate the talent of the artists, rather than the artists being restricted by a "programmer-designed" system. NG: Will Tenka utilize PlayStation's link-up cable for two-player games? Martin: The current design for the game does not lend itself to a two-player game. We have chosen to concentrate on a single-player game - which would be the most played version anyway. NG: Comparisons with Doom are unavoidable. Can you explain the differences in the ways the two games create a "3D" environment, and why you feel the Tenka way is superior? Martin: Doom uses a 2D map system. giving each "zone" of the environment



Of course, no first-person shooter is complete without a rogue's gallery bad guys. Tanks's enemies will be based on fully 3D, polygon-based mod

certain characteristics (floor height, ceiling height, lighting level, etc). This means that things like nonvertical walls, floors above floors, and complex environment objects are hard — if not impossible — to do. Tenka, on the other hand, uses a full 3D environment editing tool which enables us to quickly construct very complex environments which can contain a wide and varied

range of features. Tenka also features fully-lit 3D characters which interact with the environment realistically. Things like attenuated point light sourcing, and local lighting models greatly enrich the feeling that things are "in" the environment we have created. One of the things we tried to eliminate from Tenka was the mix-and-matching of 2D bitmaps and 3D environments. Everything in Tenka is real 3D. NG: How will Doom players find Tenka's gameplay to be different? Martin: The environment design offers greater levels of realism, and the game itself introduces a history of events and an evolving plotline

a full 3D environment editing tool which enables us to quickly construct very complex worlds"

"Tenka uses

rtin Unidates, Pavenosio



ng alphas 餐

Formula One

The most impressive 32-bit racer yet warms up for a summer release



Format: PlayStation Publisher: Psygnosis

Developer: Bizarre Creations Release Date: July Origin: U.K.

industry's tove affair with motor sports is set to continue with Psygnosis' new officially licensed Formula One sim. Benefiting from

Ridge Racer and Sega

though the videogame

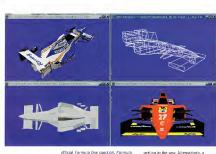
Rally in 1995, it

afready looks as

150,000 fullytextured polygons per second. About 20% of these are Gouraud shaded, How much would an equivalent

"We can shift

PC cost?"



Each car featured in the race in an accurate representation of the real life Formula One equivalent. Performance state are based on the 1995 season (left)

official Formula One sanction, Formula One's car dynamics are accurately modeled on the reactions of a real F1 whicle, with all values included into the simulation taken from actual car measurements.

In terms of circuit realism, the game looks to be similarly unparal field. F1 will Include realistic weather conditions reflecting the season in which the race is taking place, as well as the country. In addition, the creators have taken track data from accurate site measurements, transposing their findings into textured 3D circuit models, with some of the

largest notching up 90,000 polygors. The Formula One license has also enabled the designers to employ and include all the rules and regulations pertaining to Formula One driving including the flag system, car regulations and, best of all, racing etiquette. The license has also enabled £1 to feature all 17 tracks, all 13

teams, and all 26 drivers. Each driver has his own personality, aggression driving style — just like real life.

Bizarre Creations claims that this level of detail does not affect the frame rate, with a slick 30 Hz update putting to shame Geoff Crammond's F1GP2, the equivalent F2 excerience on the PC.

Stressing the immediacy of the game, F1 can be played as a straight-forward arcade racer without all the sim-style stuff (pit stops, tire selection, downforce settings, etc.) getting in the way. Alternatively, a selection of sim elements can be chosen from the full list on offer. Even such concepts as aerodynamics and the composites will be explained in the game, giving players a unique insight into the workings of the sport.

into the workings of the sport.

Next Generation talked with Sarah
Dixon of Bizarre Creations:

Next Generation talked such Sarah
Dixon of Bizarre Creations:

Next Town that extent is 7L building on the
success of Psygnosis' other PlayStation
races, Wippeor and Destruction parases, Wippeor the
Sarah: If we had asked for assistance,
Psygnosis would have made it available.
However, F2 is using a different 30
engine and rendering methods to
Psygnosis' other PlayStation titles,
which means that other than discussing

engine and rendering methods to Psygnosis' other PlayStation titles, which means that other than discussing general problems encountered with a new machine, we have had to develop our own systems. NG: How have you managed to balance

our own systems. Mr. How have you managed to balance both an enjoyable gamining ourefrace to enjoyable gamining ourefrace enjoyable gamining ourefrace part of the property of the property of the part of the property of the property of parts of the property of the property of parts of p

circuit model, to the dynamics of the

car, to give a realistic driving experience,

Nothing can stop him now

The UK version of FI will feature the comm and play-by-play commentary BBC's very own Formula One presenter, Murray Walker. Evidently, Murray is famous in the UK for picking out drivers in the race for specific praise, or observing that someone's victory is certain, only to have that same driver crash spectacularly within seconds of Murray's comments. A blessing from Murray is the equivalent of being featured on the cover of Sports Illustrated. You've been warned...



irray Walker, the UK' ilking equivalent of t amous Sports istrated "curse"





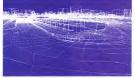


shown from exactly the same camera positions that the rani Formula O broadcasts use. With the exaction of cigaratta ads, even the some billboards will appear o the sides of the track

ng alphas







NG: In what ways has the fficia endorsement of Formula One beloed Sarah: We have been able to call on the teams. circuits, and even TV stations to assist us in an official capacity Without official endorsement, we could not use any real circuits, drivers cars, or even use words like Grand Prix. or Formula One. NG: What are your opinions of PlayStation as a game platform?

"As you see all 26 cars heading into the distance at 30 fps. you realize iust how powerful PlayStation is" Sarah Olson, Bizarre Crestions Sarah: We're currently shifting 150,000 fully textured polygons per second, with about 20% of these Gouraud shaded on a sub-E 300 machine: how much would an equivalent PC cost? And the machine is still surprising us. We've recently put in the code for

the starting grid set-up (26 Gouraud shaded cars on one of the most detailed parts of the circuit) and we were cringing when we first tried it out. waiting for the game to drop a couple of frames. But it didn't! As you see all 26 cars heading into the distance at 30 frames per second you realize how powerful the PlayStation is.

NG: To what extent is the PlayStation's rigid development environment limiting

innovation on the system? Sarah: The development environment has vastly improved since the early days. of the machine, and therefore developers new to the system can achieve good results with little experience, which benefits the gamer. However, as you get to know your way round, you learn to write your own formats and routines to work in conjunction with the Development Libraries, which are in turn being developed and improved. NG: What aspects of F1 do you believe push PlayStation the most? Sarah: Generally, we hope to achieve a level of accuracy and attention to detail that's higher than in any other game. We feel that the graphics are visually more impressive than the current racers, and being based on the real thing, are also closer to what you would see on ESPN. In terms of polygon power, we think that we are processing and drawing more polygons than the current racers. especially with the considerable number that are Gouraud shaded. NG: From what you've seen of Nintendo

64, how do you feel FI on PlayStation will compare to whatever racing games Nintendo may release? Sarah: Well, F1 will be available before September! Seriously, it's difficult to

compare because Nintendo Is so secretive about what its plans are. One obvious advantage we're going to have over any N64 game is the sound. We have 45 minutes of CD quality music, including licensed tracks from Joe Satriani and Steve Val. Add to this more than 25 pages of various commentary script from authentic commentators and you can see why F1 is essentially a CD-based game











FI is as near as PlayStation owners may get to Sage AM2's Virtue Recing

Sentient



Format: PlayStation Publisher: Psygnosis Developer: Psygnosis Release Date: October

s games become

complex.smart

game developers

more graphically

Origin: U.K.



are beginning to create complex artificial intelligence interaction sequences that deliver new

game playing experiences. The basic thrust of Sentient is

this: The player is the captain of a space station that has become damaged and is going to crash into the sun (this is bad). Your goal is to fix the ship and get you, and as many people as you can, out of danger as soon as possible (this would be good). Unfortunately,

there are several subplots running parallel to the main story that pit the crow

against each other - and often you as well. Players will need to discover what is really going on, and possibly even to choose sides in the various ensuing conflicts. Combat is always an option, but randomly killing people will ensure that you are unable to gather the

data you need to finish the game. Sentient's real charm is in its realistic approach to conversation - characters in the game will talk



to each other even when you aren't around, and will react to your character differently depending on how he has acted in the past. The end result is a fairly believable cast of characters set into a three-dimensional world.

The City of

Lost Children imitated several

times, no one



Format: PC Publisher: Psygnosis Developer: Psygnosis Release Date: December Origin: France

seems to have gotten a better grasp on the artistic value of the genre as the

development team working on the new City of Lost Children, Filled with rendered cut-scenes and smooth, believable interaction with a 3D world, the game promises to deliver a visual feast surpassing anything attempted before.

For those unfamiliar with the film, The City of Lost Children is the story of a little girl looking for her lost friends. Through her travels she encounters many bizarre and

twisted personalities, some of whom are helpful, and some who are diabolically harmful. Luckity, The City of Lost

Children is interesting in its approach to garning as well, Unlike many games that put the player into the shoes of a gun-toting maniac or brilliant private detective. City casts players as a relatively helpless little girl. Situations that would seem comical to a more physically endowed character are moments of Intense danger for this small child. The resulting gameplay offers a terrifically novel approach that makes City a game well worth looking forward to



for developers to deliver gaming

he 3D virtual world created by Infograms in Alone in The Dark opened up an entirely new way universes. Although it has been

es and a de

ng alphas 🐼

The original was almost a classic. Now Reflections aims to go all the way

Destruction Derby 2

Format: PlayStation
Publisher: Psygnosis
Developer: Reflections

Developer: Reflections Release Date: November Origin: U.K.

A

s a demonstration of PlayStation's graphic power, Destruction Derby stood alone in 1995, Gameniay

let the visuals down, however, with the realist in Anniling of the cars proving to be unsatisfactory to gamers accusioned to such OTT areade thrills as Ridge Racer and Daytona. Now Reflections has the chance to correct these mistakes with Destruction Derby 2. Next Generation met with Martin Edmonston, project leader:

NG: How far are you into the pages, the project leaders.

Martin: We're approximately six months complete. At the moment each programmer is working on a particular aspect of the geme (car intelligence, car handling, and so on) to be pieced together later.

NG: From a technological point of

on) to be pieced together later.

NG: From a technological point of view, to what extent have you built on the original DD engine?

Martin: The game now handles

collisions in 3D. That is, cars are able to roil, tumble, and carrwheel in real time, making the crashes far more dramatic. Using the knowledge allowed with DDJ, we have rewritten and improved the speed of the main 3D polygon engine, which has freed more time for the vastily more complicated collision calculations.

We have also made more use of

some of PlayStation's hardware features such as Gouraud-shaded lighting, transparency, and so on. We have also greatly improved our development tools so time-consuming and mundane tasks such as arranging nextures and model conversion are quicker.

NG: Do you find that Play Station still has more to discover, or are you hitting the citling of its powe? Martin: I think that it may be quite some time before the level of instration is reached. During and since the development of DBI we discovered plantly of new techniques for improving performance and this will undoubtedly continue. NG: Have you acted on any NG: Have you acted on any

was thave you access on any criticism of the original? Martin: Common criticisms centered around the tracks being too small and too narrow, so this has been addressed. We are also trying to make the handling a little easier without compromising the accuracy of the collisions. NG: To what extent is this a real sequel, and not simply the same

game repackaged?
Martin: From a programming
point of view, DD2 has been rewritten virtually from scratch.
However, the most essential fun

elements of DD1 have been retained and improved, namely the crashes. The game was always meant to be fun and not taken too seriously, though DD2 should feel

and have a longer life span.
NG: Can you tell us about Monster
Trucks, your other PlayStation
title? Is it based on the DD engine?

Martin: No code is shared between DD2 and Monster Trucks (with the exception of surrounding code such as sound and sprite routines, etc.) Monster Trucks started

development about three quarters through DD1 and is a game based on those famous car-crushing, monster pick-up trucks with the oversized wheels.

The player is able to race through water, jump over huge mounds of earth, crush cars, etc. Basically, the game accurately models vehicles' suspension over rough terrain.



All the high speed collisions and physically accurate crash mechanics that made the original such a hit will return in DD2

Wipeout 2



nosis is working on new craft to introduce to the Wipcout rse. The aim is to be more beginner friendly, while at the ime offering edvenced plevers more death and strategy

Ithough lacking the arcade-appeal of Ridge Racer, it was perhaps

Wipeout - more than any other game - that was PlayStation's finest answer to the awesome Sega Rally on Saturn. Certainly inspired by Nintendo's F-Zero, the groundbreaking Super NES game, Wipeout managed to integrate state-of-the-art visuals with great

hack-to-basics gamenlay Next Generation talked with Andy Satterthwaite, Wipeout 2's

producer, to find out how the sequel will improve on the original: NG: How far are you into the game's development right now? Andy: We are at 35%

describe Wipeout 2 as a "secondgeneration" PlayStation title? Andy: Obviously, our previous experience will help us avoid many of the pitfalls of PlayStation development, allowing more of the development time to be spent on innovative coding and development and polishing the ever important issue of gameplay, rather than on nongame-related problem solving.

NG: To what extent have you improved on the Wipeout engine?

Andy: We've completely overhauled the collision code and AL which means that we have been able to increase the maximum race speed while also improving the resolution of the collision detection. We've also employed some Innovative graphic effects, which

we believe will make Wipeout 2 the most visually striking race game available on Playstation, We've also drastically reduced the track loading times and menu accesses. NG: What design elements or aspects of gameplay structure have been changed to make Wipeout 2 an improvement over the original? Andy: The race structure has been drastically changed to one with a greater arcade feel. There are now more ships on track, more race classes, entirely new tracks, new weapons, checkpoints, and pit lanes. NG: Have you acted on any criticism of the original?

Andy: A few people thought the orlginal Wipeout was hard to get into, so this time we're making things easier for the novice by introducing a slightly simpler and slower introductory race class.

On the other end of the scale, however, we've introduced speeds and features which should provide the experienced player with even greater challenges. NG: How much unexplored

potential do you think PlayStation Andy: The PlayStation has a lot of hidden death not immediately apparent to the initial developer we are just beginning to tap these hidden depths for Wipeout 2. NG: How important were the music and stylized intro graphics to the original game's success? To what extent will these elements

evolve in the Wipeout 2? Andy: These elements were integral to the overall design philosophy of the game, With Wipeout 2, we are maintaining our links with the Designers Republic and acquiring music from Professional bands and DJs as well.

1995's Wipeout is considered by many as PlayStation's finest hour. So how can the sequel be made even better?

Format: PlayStation Publisher: Psygnosis Developer: Psygnosis Release Date: November Origin: U.K.





Wipcout blended professi isic, professionel grep and — get this — e good game

that we have NG: To what extent is it fair to been able to increase the maximum race speed" Andy Satterthoughs Destroyers

"We've

completely

overhauled

the collision

code and Al.

which means

ng alphas 👂

Zombieville

B-movie horror meets the graphic adventure game in a game that Psygnosis hopes will horrify PC gamers



layers take on the

role of a young

adventurer who has been infected

with a disease

that is slowly



charecters move in 3D eround prerendered beckgrounds. Try

others who have also contracted the sickness, some who have not yet fallen prey to it, and some who

are already the walking dead. More than just another pickup-the-weapon-and-start-shooting hlast-fest. Zombieville uses detailed nonplayer character templates and moral-based puzzles to encourage players to think twice

Format: PC Publisher: Psygnosis

about running through town trying out their arsenal on everything that moves. Players

who kill innocent characters will not only find themselves unable to acquire

valuable information, but also will

increasing the speed at which the

disease spreads through them.

Psygnosis is banking on Zombieville's B-movie appeal and

its tried 'n' trusted gamenlay

structure to win over

later this summer.

gamers come its release

find that their evil nature is

Developer: Psygnosis Release Date: September Origin: U.K.



onscreen status dato, so es to be more speaky

around a small town and its outskirts, players will encounter Europe's most popular sport heads

turning them into a zomble hungry

for human flesh. As they travel

for US gamers

ince Electronic Arts dropped the ball with its move into the 32-bit sports market.

there is no longer a dominant power in the business of turning sports into videogames. Unsurprisingly, many companies have sought to fill the vacuum.

This is Psygnosis' first attempt. Complete with flawless graphics, sound, and gameplay, the game's French development team has done an amazing job of recreating the excitement and challenge of the world's most popular sport.

Like in FIFA, players can tackle (no pun intended) the game from several different camera angles and positions. Full stats are

Format: PlayStation Publisher: Psygnosis Developer: Psygnosis

Release Date: May Origin: France

included for every one of the teams, and standard substitutions are allowed. Play is fast and furlous, intuitive enough in control to enable beginning players to grab the lovpad and start playing, but detailed enough to give skilled players a definite advantage. Like a fighting game, Power Soccer also includes "special moves" that give players terrific effects like blcycle kicks and power moves when they press the appropriate button combination. These moves have

Power Soccer different results depending on which of

the two modes (arcade or realistic) that the player is in, with arcade moves showing brilliant flashes behind the ball which can carry enough force to push the goalkeeper back into the goal on a solid power shot.

With its phenomenal polygon graphics, multiple move control set. and realistic feel, Power Soccer is poised to grab another piece of the now fragmented next-generation sports crown. This is one that every sports fan will want to watch for



Psygnosis' French entry compete with FIFA?



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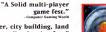
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game fest."

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For Windows 95 and Windows 3.1 CD-ROM





NHL PowerPlay'96

0 1157 0 0651 Dowleysist

Real players and real stats keep the game realistic and exciting

I

n the early days of the 16-bit sports war, the real winner was Electronic Arts, which maintained a virtual monopoly on all

powerhouse titles for both systems. With the evolution of next-generation games, the doors once again are open for companies to claim what is now recognized as one of the most important crowns in the game industry, that of sports king. With its newest title, WHL Powerplay '96, Virgin is adding itself to the ranks of companies which are flexing belief muscle inside the sports arena.

One of the greatest sasets of Powerplay '90 is its fantastic visual impact. The game creates a 3D environment that is not only goodlooking, but also scrolls and gams with enough speed to present a fluid and controllable play atmosphere. On the Play Station and Saturn versions, players can move a virtual camera to any point on the rink to for their chicke of view. Excellent attention to detail is spaperent in the actual play of the game.

Excellent attention to detail is apparent in the actual play of the game. Virgin prioritizes solid game AI, enabling the game to react to different play situations like human players and coaches would. Full NHL and NHLPA licenses with complete stats add to the The first 3D, polygonal hockey game hits the next-generation consoles with all the makings of a sports classic



game realism as well. The game's "coach" mode enables players to edit standings for line changes, and both offensive and defensive play styles and zone coverage.

Although it's too soon to tell if Powerplay will be the best of the first-year hockey sims, the potential is there. And now, gamers have the chance to see what solid 32-bit gameplay is all about — the smart orchestration of great graphics, sound, and effects alongside fantastic AI routines.



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Devil Summoner





Even if there were more RPGs for next-gen systems, Atlus' latest would be noticed for its use of the CD-ROM form



RPG in a modern city gives the player access to modern guns

Setting this

Using both first-person end third person perspectives, Devil Summoner blends new technology with traditional RPG elements

Format:	Satum
Publisher:	Atlus
Developer:	Atlus
Jacob Date	summer

Origin: Japan
eleased with a barrage
of critical praise and

Impressive sales in Jopan, Devil Summoner (a.k.a. Shin Megami Tensah, may be the next landmark among next-generation RPGs. In modern Tokyo, a student comes across the body of a Tokyol Summoner," a kind of Tokyol Summoner, a kind of which will be a shifted to film of the shift o

on the Investigation in the Summoner's stead, agreeing to return him to his own body when the case is solved.

Some deal, huh? From such modest beginnings, however, is built one of the most complex and diverse RPGs yet devised. The game uses a first-person perspective for walking around Tokyo.



Not every monster end demon immedie ettecks you; it's possible to telk them

then switches to more traditional thirdperson perspectives for encounters between characters. Also, while the game has a supernatural storyline, settling the game in a modern city gives the player access to modern gives.— and nothing stops the forces of evil like a load of buckshot to the head.

Even more interesting is the designer's approach to encounters with monsters. Although there's every chance they may simply state's you, depending on how powerful the player has become and how well they handle the encounter, a monster may also give information or items, or join you. Further, monsters on the morphet together in various combinations to form new creatures with additional abilities, and there are more than 200 possible combinations to that 200 possible combinations to try.

It can be argued that the RPG is a genre whose appeal depends on the variety of situations it can put players through, and on the sheer volume of information it quies them to juggle, making it a natural for the storage room of CD-ROMS. Devil Summoner is among the first games to try.



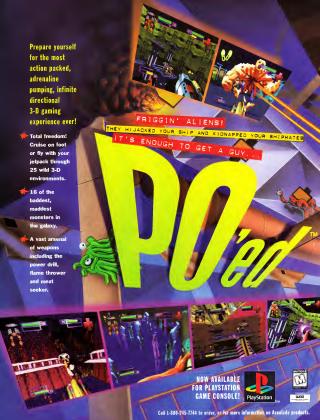


Later in the geme, monsters can morph together to build eve bigger, bedder beest



Hey, went to bag a demon? How ebout buying en AK-47, or meybe e Frenchi SPAS

63





"YIPPIE-KI-YAY * "@#?£!"



COMING IN MAY.



WINDONG OFFICE TOUR CONVIDENCE THAN CERE CETTEN



Capcom

Publisher: Capcom
Developer: Capcom

Release Date: N/A Origin: Japan After a period of relative dormancy, Capcom's legendary status as a creator of classic arcade games has been restored and is growing again



Super Street Fighter II Turbo (top), Dark Stalkers (far right), Akio Sakai, head of Capcom consumer software division (middle)

or a company with such a reverted arraste and console lineage, Capcom hasn't had it cast of late. While a history of rich, playable arraste grames precedes it, the Osaka-based company has recently been suffering from the familiar. Japanese problem — how to adapt. Negotiating the gargantuan rift that exists between 2D and 3D worlds clearly hasn't been an easy process for Capcom.

Recently however, it seems as if the company is pulling out of its period company is pulling out of its period or edundancy. With a glut of arcade ports currently in the Offing for PlayStain and Saturn, plus its most aspiring offering, the engage gover-feet. Resident Evil, the company is showing it's ability to overcome any perceived drawboing it's ability to overcome any perceived drawboing it's sublity to overcome any perceived drawboard or company's consumer headquarters in Tokyo to speak with the head of the consumer software division. Aki Sakala.

NG A STATE SATE THE CA



we put any violent scenes in our games? Ultimately though, we have to regulate violence in games. We'll receive a lot of criticism if we don't. NG 20 fecular arction coprule at

AS: Although we have a studio for motion capture, we didn't use it in that game. Instead, the coders studied books, videos and films to learn the movements of spiders and people, etc. [Incidentally, one Capcom artist allegedly scanned in a picture of a dead person's eyes to capture for the moribund look on the Zombie's faces]. We're more likely to use motion capture in head-to-head fighting games. For example, we employed it in parts of Street Fighter: the Movie. That was the first of our games which exploited the technique, although we'll be using it more from now on - It's much quicker.

"Ultimately, we have to regulate violence in games as much as possible"

> Selvet, head of consume software gives:

The latest in Capcom's

vertical shoot 'em up stable is 19XX, soon to be converted to PlayStation

aniese anisar



AS: We are aiming this game at 1B year olds in Japan, a higher age than Capcom usually aims at, and an entirely different suffence. This is partly because

audience. This is partly because PlayStation is supported by older people. We also want as big a market as possible for our games. If we create a game for a low age group, there is little chance that interest in the title will spread to more mature players. However, if the game is aimed originally at that higher age, there is a good chance the interest will filter downward.

NG=LV/II storon satter/.

AS: We are considering a Saturn conversion but the machine's spec is not ideally suited. Technically speaking, it'll take us a long time to transplant.

the game. We'll come to a conclusion about that soon. Because Saturn is popular in the arcades, we guess its users are younger than PlayStation owners.

AS: It takes a year to convert perfectly. With X-Men we had to cut about a third of the animation frames due to Saturn's smaller RAM capacity.

AS: No way — If we develop new 3D officiting games well probably develop new 3D characters. It may well become possible to produce a 3D Kero n°76 possible to present images. In our new game, STR n°76 possible to present images. In our new game, STR n°76 possible to present images. In our new game, and style possible to produce a single possible to produce

AS: Because we remained committed to the Super Famicom, which can't handle 3D, Sega and Namco got a headstart on us in the arcades. But now we will be







Akio Sekel, heed of Cepcom's consumer softwere division, wants the Street Fighter company to become as celebrated in 3D as Segs and Namco are presently

concentrating on 30 for both home users and arcade fans. We hope to eventually compete with Sega and namo, but with 30 arcade machine that are cheaper to make that their's. We won't be abandoning our popular 20-animated style seen in Oark Stafkers and X-Men. We think of this type of 20 game as our own.

MG, What are kindingly do you shad to

ASS. Generally, we've developed most of our 3D stuff with Softimage and SGI tools. Our programmers had a hard time in the beginning — It was like changing to the septiment of t

AS: Compared to Namco's System 11

"It may well become possible to produce a 3D Ken or Ryu if we can use a great deal of polygons"

Akie Sukai, head of consumer



Cepcom's newest combinest, Resident Ev combines Alone in the Derk gamepley with lote of blood and sute.



Saturn Vampire Hunter (the follow-up to Dark Stalkers) continues Cepci trend for lavies, cartoon-style grephics and clessic 2D fighting gemeple



(clockwise left to right): Gen, Rolento, & Sakura

Street Fighter Alpha II

The Street Fighter series has now reached a grand total of nine titles with Capcom's release of Street Fighter Alpha II.

Using the CPS 2 board, which generated the likes of X-Men: Children of the Atom. Street Fighter Alpha, and others, SFAII adds just enough in just the right places to justify its "new" existence. All 13 characters in SFA will return (plus eight more), plus three new ones: Sakura, Gen, and Rolento. New features include a combo system you can create during play, and at least one of the characters is capable of two different fighting styles (Gen switches from Mantis to Crane style by pressing three buttons simultaneously). The game also is set in turbo mode, providina hyper-quick movement and fighting action.

It's still 2D, and it's more rehash Street Fighter, but SFAII will feed the gameplaying sharks just long enough for it to be old news when SF3 comes out this summer.



board, the spec and functions are generally the same.

smoke (right) - all Capcom

AS: We've actually started developing some new aroade titles. Toshinden isn't one of our own in-house games, but we're in the process of developing our own games and not just beat 'em ups, either.

NG Dr vo seleve that people who is will be 'v yStation' western would have bely in

AS: Those who don't have the PlayStation version will be keen to play the arcade version, which also has a few unique features. For example, it's possible to fight against a lot of other players in the arcade. NG: Will you be developing for

AS: 'res, of course. We will develop games on Minetado 64 edwicht take into consideration Ninetandr's present market, i.e. children. However, that does not rule out the possibility of converting games like X-Men and Resident EVII. The machine hasn't been released yet so we don't know which age group Nintendo is targeting, but we are developing some completely original concepts for Ultra 64 at the moment.

1 12

AS: We produced a few titles for the PC98 and Sham X-68000, but they only sold about 5,000 copies each. But we do expect the Pertalum, and particularly Windows 95, to catch on all over the world, and Japan as well. So we will develop more games for the '96 PC market. We're already converting Resident Evil and, unlike Plastation, we'll use red blood.

AS: Our development team has refused to do so because other companies have already written conversions. But, it will be a successful idea if we put three or four games on one CD and then sell it at a reasonable price. We're sure Namco will be doing it with Museum CD. Now, if only you could convince our

R&D department...



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Time Gate



on Tibbs, the hero of the game, first slips through the time gote sees some traditionally warm medievel hospitelity

Format: PC CD-ROM

Publisher: Infogrames Developer: Infogrames Release Date: TBA Origin: France



hen Infogrames released its seminal Alone In The Dark, the French company basically redefined the concept of the arcade adventure. Time Gate the company's newest title, is the first part in a brand new series of three adventures

employing a totally new scenario. Technically, Time Gate is designed in much the same style as Alone In The Dark: the player controls the main character around a 3D environment with which he can fully interact (i.e. objects can be picked up, enemies can be fought, etc.). The difference now is



After setting the agenda with the Alone In The Dark trilogy, Infogrames is back with the first of a new three-part adventure





sumptuously detailed and the character animation greatly improved. Infogrames claims there will be more than 250 Incations and 40 characters in the final version, with each character using more than 1,000 frames of animation. These graphic improvements have been made possible by a 3D mapper developed inhouse, and used to model and Gouraud shade all characters and objects. If this graphic quality is maintained

throughout the game and backed up by a similar standard of puzzles and action sequences, this title should see Infogrames reasserting its status as one of the leading designers of arcade adventures.

Infogrames claims there will be more than 250 locations and 40 characters in the final version

Time Commando



Format: PC CD-ROM
Publisher: Electronic Arts
Developer: Adeline

Release Date: June
Origin: France



typical of French design

Japan has playability, Germany has technical wizardy, but then the French have style. Of ever created (of which, admittedly, there are few), each is guaranteed to graphically shead of its day. Time Cammando is no exception.

f America has gloss.

Coming from Gallic coders Adeline, the designers behind the

revolutionary to designers belinfold use revolutionary selections. Time Commando displays a graphic quality that puts most other PC titles to shame. The scenery is a fully rendered, texturemapped, hil-res (i.e. 640x480) landscape streamed off CD, which rotates and pairs as the player wanders around. Unlike most streamed agames, though, TC







Time Commendo's wesponry advences according to the time zone you're character is in. In medieval times, you can use swords and crossbowe

Adeline's latest title blends rendered 3D scenery with roaming beat 'em up action — but at what cost to gameplay?







After werping to the prehistoric ere, the time commando has to tackle Neendorthels (top), sabor-toothed tipers (left), and pendulums (right)

stagers the linearity. Depending on where the player wanders the appropriate background image is accessed and displayed, with the 3D characters played on top. Unlike Sega's Wirtua Cop, which pulls the player through the game relentlessly, some freedom of control is provided to the player — this is not a game on rails.

The combination of freedom to explore and Gallic design









Time Commendo's Wild West level has a distinctly Sergio Leone, spaghetti-western feel, with hersh red sands, rickety wooden buildings, and hombres dozing in the sun

makes it inevitable, therefore, that a bizarre plot should propel the action. In the future, computers have advanced so that the only thing limiting their awesome power is the speed in which light travels around the circuitry. To surpass this, computers are built with their cores placed within another dimension, where light travels faster. Surprise, surprise, this bit of hardware trickery malfunctions, triggering a chain reaction that could potentially destroy all life. To save the planet, the time displacement, sending him through 10 time zones to shut down the computer's core before it blows.

In this way, Adeline has introduced era-sensitive weaponry to the basic beat 'em up engine. In the prehistoric land, clubs and rocks can be collected, in medieval Europe, the weapons are crossbows and swords. Whether this variety will raise *Time Commando* to a class above beat 'em up, however, remains to be seen. In this very early state of development, all Adeline has to take of the property of the control of the state of development, all Adeline has to the property of the state of development, all Adeline has to the property of property o offer is an incredible realtime animation engine boilted onto some basic gameplay, reminiscent of System 8's classic, The Last Minja, on Commodore 64. But if Adeline can blend TO's graphics and gameplay successfully, it could well uphold its reputation for mold-breaking software.







In the samurel level you encounter by ninjes end experts in mertiel erts. Note that the background graphics actually rotate and scroll as the time commendo searches for the computer processor — the key to the game

Tomb Raider



Gune, guns, end even bigg guns ere Lare's primery meene of communication

adventure with the strongest polygon female ever to hit the game industry

Format: Satum
Publisher: U.S. Gold
Developer: Core
Release Date: winter
Origin: U.S.



U.S. Gold and Core bring us an

Tomb Raider shows a great deal of promise, crossing the polygon characters of Capcom's Resident Evil with the fast-paced gameplay

of Doom

ecently, gaming has seen an upsurge of the role of female characters. They've changed from meek princesses in need of rescuing to Rambo-esque, center stage heroines. Tomb Raiders has taken this to the extreme, giving us not only a heroine, Lara Croft, who's even more hard-bitten and surging with testosterone (metaphorically speaking, of course) than any Indiana Jones or James Bond could ever hope to aspire to, but also an especially vicious and nasty female villain. Lara is fresh from a hunting trip in

Lara is fresh from a nunting trip in the Himalayas where, having bagged a 12-foot tail yet; she's litching for a new challenge. In a scene which pays homage to one of the game's obvious inspirations, the original Raiders of the Lots Ark, she meets with Jacqueline Natia in a seedy dive bar in Tibet. There Natia convinces her to recover a mysterious artifact from the tomb of



Lare Croft is no kidnepped girlfriend, she'e o two-fisted here who'e more then able to save the world by hers — end then some

Qualopec in Peru. The artifact is, in fact, one of three pieces of the ancient Atlantean Scion, a talisman of incredible power. After discovering the fragment, Lara falls victim to Natla's treachery, but overcomes the hired muscle sent after her.

muscle sent after her.

As she delives into the reasons why
Natla would double cross her, she
uncovers a mystery that reaches back to





before the dawn of recorded time, to the treachery that destroyed the Atlantean civilization and the disasters that struck the world when it fell. In the course of the game Lara is betrayed again, shot at, attacked by wolves and thugs, and does battle with still very active and alive Atlantean big-robots, Fortunately, she carries and uses more and bigger guns than anyone else in sight. The publisher, U.S. Gold, has tried to

describe the gameplay in the "like-Doom-except" category, but it's clear the game is only going to resemble Doom in terms of its pace and violence. Tomb Raider uses 3D polygon characters, and Lara is free to move around the game area, blasting at whatever gets in her way. At its heart, the game is a graphic adventure, played through action sequences, since the storyline is quite

sprawling, and clues must be uncovered to continue to the next stage. At press time, only an alpha-stage demo was on view, showing Lara squaring off against a pack of wolves. Other elements, including the FMV sequences that link together the game stages, had yet to be finalized. However, Tomb Raider shows a great deal of promise, crossing the polygon characters





of Capcom's Resident Evil with the fast paced gameplay of Doom - a combination few other coming titles can match. Throw in a hard-bitten female hero, and you've got a game with all the elements of a possible hit.

e, and the deer tian desert, oo Lare





ke Lare will be cep:

Lara is free to move around the game area. blasting at whatever gets in her way



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Eurit



gh it may sound strange, Eurit's neo-tag format delivers excel gameplay. Traps, spalls, monsters and others will keep gamers riveted

Format: Saturn, PC, PlayStation Publisher: Virgin

Developer: Radical Release Date: summer Origin: Canada





ing players to on new strategies or each uncoming lavel

rgin's Eurit is a bit of a surprise. Since the release of PlayStation. many companies have been in a rush to show off the level of graphics and sound programming they've achieved

on the new machine in established genres. Careful companies have not been looking for great new games as much as they've been looking for attractivelooking games. If Bomberman and Tetris were shown to publishers today, there's a good chance they would be pushed aside in favor of games with more visual bells and whistles.

those titles that is very simple on its surface, but is a great deal more once you plumb its depths. Basically, the game is an electronic cross between capture the flag and tag. Each player (two in the basic game, four with the PlayStation link or PC network) must navigate his or her way around a maze in the attempt to capture a set of flags to win the game. One player starts the game as "it" (like in tag) and cannot capture any flags until he's touched the

The PlayStation's main forte up until now has been graphics, but Eurit shows that gameplay is just as important as it was during the 16-bit era



other player and made them "it." In addition to the back-and-forth chase, the maze is filled with all sorts of dangerous obstacles and monsters as well as several traps, teleports, and powerups that keep the gameplay fresh and varied, Magic spells, which enable players to step off the maze by building platforms (and blasting other players with disorienting effects), are included. Currently, the game contains 48 levels (three levels on 16 planet types), 16

bonus levels, and 16 monster types. While graphics powerhouses come and go, it's titles like Eurit that focus on gameplay that have the potential to deliver long-term play to fans.

Eurit is an electronic cross between capture the flag and tag

3DO Games:





No Olympic games should be without the



a genuine sports title. As the name implies, 3DD Decathion covers all 10 events of the Olympic decathlon, from the 100-meter dash, to the long jump, pole wault, javelin throw, and the final 1,500-meter run.

Players can choose their athlete from among 25 nationalities, including options for hair and skin color. Every competitor has attributes for physical characteristics like speed, strength, and stamina. which can be improved by training before the events. Players need to be careful not to overtrain though, since every athlete has a set of injury statistics as well. The onscreen characters are completely motion captured from real world-class athletes, and care has been taken to make each one move accurately according to real-world human biomechanics and physics of motion. Play control is handled through a combination of button and joypad, using the traditional method of punching a button at the correct speed and, perhaps more important, rhythm to make the

Decathlon

After a string of successful titles, Studio 3D0 tries to break the sports barrier in time for the games in Atlanta

Format: 3D0
Publisher: Studio 3D0
Developer: Studio 3D0
Release Date: May
Origin: U.S.



Athletes have a wide range of optional attributes, enabling you to customize you competitor for any race and netionality



Fach

onscreen character accelerate smoothy. Up to eight layers can compete at once, using either one controller and taking turns or multiple controllers as immultaneously, and may choose to either run the full decastion or enter "Track Meet" mode to compete in a view of the catching turns or an accelerate that para and sooms to follow the athlets, and sooms to follow the athlets, and the screen is overlad with Trys graphics to give the feel of watching a call Olympic brandeast, right to to the

Studio 3D0 has produced a number of excellent titles in recent months, and there's no reason to believe Decathlor will be any exception.

character moves accurately according to real-world human biomechanics and physics of motion



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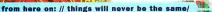
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Magic Knight

Working Designs imports another very Japanese RPG and develops it into something uniquely American



Reyearth's enimated sequences ere a combinetion of origina work end scenes from the enime TV series orking Designs has made a name for itself by importing RPGs from Japan and not only translating them, but reworking them so the dialog has a distinctly American

feel, and spicing it with Western popculture references. Now the company is making the leap to next-generation systems in a big way, having released *Shining Wisdom*, the war sim *Iron Storm*, and with barely a pause, *Magic Knight Rayearth*, all for Sega Saturn. Based on a Japanese aminated

series, this RPG follows the adventures of three girls, students in modern Tokyo (at press time, the characters names had yet to be finallized, since Working Designs is "Americanizing"

Design is "Americanizing them). The three are mysteriously transported to the mythical world of Rayearth. Somehow in this land they all possess mystical powers, which makes them the only ones capable of opposing the evil that is spreading through the land and (altern) rescuing the princess and restorting oeace to

the kingdom. Throughout the course of the game, the player can switch between

Rayearth

Format: Saturn

Publisher: Working Designs

Developer: Working Designs

Release Date: July Origin: Japan

controlling any of the three major







characters at any time. As with previous Working Designs release, the oddly named title includes a large number of animated sequences and more than 90 minutes of CD-supplied make and spoken datags, including plenty of Working Designs Signature humon-Working Royard vices the typical to the Working Stature Stat

Although all Working Designs' previous releases had been for Sega's never popular and now defunct Sega CD, the Lunar series still sold well. Legions of RPG fans should have a lot to look forward to.

detailed backgrounds.

major cherecters hes own unique powers, c switching from one to enother them is integ to the geme's structu

Three little schoolgirls heve been turned into superdeformed heroes; it's refreshing to have female heroines

it's re femal

OLD SOLDIERS NEVER DIE. THEY JUST TURN INTO

BLOODTHIRS

MUTANT ZOMBIE

You blasted your way through an onslaught of undead marines and hell-spawned hordes in Doom. Ultimate Doom and Doom II. Now you can KK retire, right? Wrong. Seems flesh-eating mutants have the mortality rate of a cockrosch and are alive and kicking in Final Doom - the last of the MI legendary Doom products. It's two new 32-level episodes complete with new stories (Evilution & The Plutonia Experiment), new frighteningly realistic graphics and new pulsepounding music. It's time to finish what you started.

End of stor

ÄNGE OF MANKIND OR STENCE













995 "International Aquatic Film Festival"

Cannes, France

"It's efforts like these that will establish a new 32 bit













Red Baron II

Sierra On-Line's second crack at WWI adds a whole new look to one of the greatest flight simulators ever



(top) can holp you win the war or send you down in flamos (right)



enable players to fly not

Along with an updated

career mode, 35 planes to choose from, four

different service branches,

and texture-mapped

graphics, Red Baron II

only against each other but also to select missions

and fly as a team.

ynamix's original Red Baron was one of the greatest PC flight sims ever to hit the market. Smooth play, realistic graphics (for the period), and an unsurpassed campaign

mode launched an entire line of topnotch war sims with the ACES series. Now, after Aces over the Pacific and Aces over Europe, Sierra is returning to the age of biplanes, aviator goggles, and long silk scarves with a sequel to the title that started it all. The question is, with a new operating system, and a tendency in the past to pay too much attention to the presentation rather than the substance of a game, will the development team be able to recapture the adrenaline-filled atmosphere of the original series?

promising, Sierra has been working on a superior AI system to replace the dated model used in the original Red Barron in addition to including a random mission generator that ensures a fresh feel with each play of the game. This generator creates a circle of activity with a 150mile radius that includes pre-existing conditions like dogfights in progress, enemy planes attacking your ground forces, friendly craft being attacked, and realistic war-front movement. The

So far, the project looks extremely



Origin: U.S.







period-eccurete loce

takes to deliver the same historical feel and raw entertainment value



satisfying as leying weste to a ground target. Looks like dinner's over







el weys to view the m, pilots will settle in ith whetever engle best suits their style of play

An exclusive update from the developers to find out how Fox's epic is shaping up

Die Hard

ie Hard Trilogy Is one of the spring's most anticipated releases - on all three major formats Next

Generation met with Simon Tick. the game's lead programmer. Probe Entertainment, in London to ask some questions:

NG: First, the PlayStation version. To what extent is Die Hard Trillogy utilizing all the hardware's graphical effects?

Simon: There are lots of things like lens flare, explosions, and that kind of stuff which relies quite heavily on the transparency effects of PlayStation, For the PC version, we can do the same effects, but in software, On Saturn, we're trying to support as many of the special effects as we can, but maybe we'll have to limit them a little bit. Like the lens flare, for example. At the moment on PlayStation, we've got six or seven circular images which appear to make the lens flare effect, but maybe we'll just have two or three on Saturn version to keen the frame rate up. NG: So if you have to make a

choice between detail and frame rate for the Saturn version, you

keep frame rate, Right? Simon: Frame rate is the main thing. We've got one guy coming over to us from Sega who's very clever. He's written a program which basically takes a polygonal model, and as it's rendering it looks at the size of the polyoons; if they're very small it says "there's no point texturing this, let's do it flat in just one color," and this way it saves processor time and helps keen the frame rate up. We're going to reduce the detail of the models quite a lot, and reduce the texturing so the roads on Saturn will probably be flat shaded - so it's like a gray road rather then having textures.

NG: Are you saying that Saturn

Format: Saturn, Win 95, PlayStation

Publisher: Fox Interactive Developer: Probe Release Date: May Origin: U.K.

Trilogy

can't match the power of PlayStation? Or is it just that you're devoting more time to getting the PlayStation version right? Simon: It's because Saturn is not up to the job, really. What we've decided to do is lead on the PlayStation because currently it's the most powerful format there is.

What I've found before - while porting games from one 16-bit system to another - is that if you start designing on a Genesis, there are certain things you lust don't think about doing - like mode seven stuff - because you think it can't be done. But if you give someone a Super NES game with mode seven in it to convert to Genesis, they'll do their damnedest to try and get it working on the weaker machine. So we figured that we'd do the best we possibly can on PlayStation and then give it to the Saturn guys, Then, programmers being programmers, they'll go "Oh I know what we can do," and then they'll find cunning ways to do it. NG: You say Saturn is weak, but

you must have been impressed with the Saturn versions of Sega Rally, Virtua Fighter 2, and Virtua Cop. Simon: It was a pleasant surprise. Yeah we're impressed. But I think that if you took the code for Virtua Cop or Sega Rally and put it on PlayStation, it would be just as good. I don't think that Saturn is

doing anything PlayStation can't do, it's just harder to do it. NG: To what extent is the world in Die Hard Trillogy an accurate representation of Manhattan Simon: Since the film is set in New York, we wanted to be able to drive around New York. But when you're

going 200 miles an hour in your Ferrari - like you do In driving games you can get from one end of Manhattan to the other very quickly. We were finding that

with an accurate model of Manhattan, players would run out of space. So our levels are actually bioper than New York Also, the average

speed in Manhattan is 11 miles an hour - but in the game. It's a lot faster. NG: At one point the game didn't feature a grid system of streets it was more of a racing circuit. Were

you worried that having grid streets would affect gameplay? Simon: We were concerned it could be a bit boring. But

it's remarkable how well it does work because we mainly planned the bombs you have to chase diagonally from one another, and there are so many different routes you can take the first right, second left, whatever. That means no

matter how many times you play the game you can always take a different route and you feel like you're in a real city.







lizee a totelly different rame enrin

This person is: a. Flying down a waterfall in the Amazon



All of the above

Iron Rain

Format: Satum
Publisher: Game Arts
Developer: Sega
Release Date: fall
Origin: Japan

Fig. 1 A statement on the model of the statement of the s

If the heads-up displey of the typical High-Moc AWGS looks complicated, don't worry — mostly you just point and shoot

he gint assault mech gener has never been as popular in the US as it appalar in the US as it appalar in the US as it and the US as it appalar in the US as it appalar in the US as it appared to the US as it as it appared to the I ask year it seems to be making some headway, Now Seap it importing from headway, Now Seap it importing from the US as it is that in capies Michaevarin's 2 for a list that the capies Michaevarin's 2 for



The most recent and lethal variety of AWGS are known as High-Macs, and Iron Rain consists of a series of Assault 'mechs are now arriving in full force as Sega imports one of Japan's most high-profile titles to US shores



The geme offers e wide range of terrein, end a veriety of different mission goals

engagements between the Asian and Pacific Community and Europe. The prize? Nothing less than control over what food the Earth can still provide.

Iron Rain is a realtime assault 'mech sim, seen mostly from a first-person perspective. The player is given a selection of at least five, and when the specs are finalized, perhaps as many as six different AWGS to pilot through the various missions. High-Mac AWGS are surprisingly nimble for war machines, and an effort has been made to give the player as many aspects of a High-Mac's capabilities as possible within the scope of a Saturn control pad. At press time, the player is able to raise and lower the turret, rotate the torse 180°, and fly for short hops - in addition to being able to aim, lock, and fire the weapons systems, of course.

Two previous assault robot titles for next-gen consoles, Krizzy Ivan and Metal Jacket, yielded one hit and one miss respectively for PlayStation. Similar titles for Saturn, Thundestrike 2 and Shell Shook, have prowed that such games can be extremely well done for the system. Hopefully, Iran Rain could push even further into the realm of futuristic combat.

The weapons of choice in the 21st century are AWGS robots, the most recent and lethal are known as High-Macs







Few 'mech gemes ere see in the US, but this should be worth weiting for



In the 21st century, who you say, "I'd kill for e chili dog," you meen it





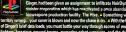
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Resident Evil PlayStation Guardian Heroes Saturn Defender 2000 Jaguar Samurai Shodown III Neo-Geo Bad Mojo PC The Beast Within PC Shannara PC Killer Instinct II Arcade Manx TT Superbike Arcade

finals

An examination of the underbelly of today's hottest games

90 PlayStation

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92 Jaguar 94 Neo-Geo

94 PC

101 Genesis

101 Arcade

107 Macintosh

107 Super NES

107 Virtual Boy

edds e few now bells and whist keeps the same solid gameplay

PlayStation

One of the most popular and

console. Descent is a lot like

Doom (ahem), except this time

mildly groundbreaking titles to hit

the PC last year arrives on a home

Descent Publisher: Interplay Developer: Interplay

ach month, NEXT Generation's team of dishard game reviewers plays and rates the month's newest titles. Our critiques of each game's morits is clarified in the main text, but as a rough guide to a game's worth (or lack of then refer to the following ratings star key.

***** Revolutionary 3r Mantly conceived and Tawlessly executed; a new algh-water mark.

*** Excellent
high-quality and inventive
ew game. Either a step
prward for an existing gen
r a successful attempt at
reating a new one

A solid and competitive example of an established game style.

Perhaps competent; certainly

* Bad Crucially flawed in design or you're flying a small ship through a series of installations carved into small esteroids. Since all the asteroids are small (cosmically specially, the levels are progressively fluge), then an odernable 'up' or 'down.' So while it's another first person shooter, the player is able to pitch, yaw, and roll in a neusearindum fig. 180°.

The pace is fast and the action can get intense. The designers at Interplay, not content with doing a straight port, went out of their way to utilize many of PlayStation's features. Plasma beams have been light-sourced. for example, so they light up the walls as they fly down corridors. The new, CD-based soundtrack includes a few grinding original cuts by industrial bands like Skinny Puppy and Type O Negative, and best of all, the networking option from the ontinol PC version has been retained in the form of compatibility with the PlayStation link cable. The game's controls are necessarily complex and take a little getting used to, but they're relatively intuitive and easy to nick up.

The experience is a little dry, however — not disappointing, just PlayStation

BAD TO THE BONE

Resident Evil

Publisher: Capcom
Developer: Capcom
Put simply, this is one of the best games we've seen yet for a

next gen system. A jaw-dropping graphic adventure with plenty of action thrown in, Resident Bull tikes the basis; but mechanis of the Alone in the Bark series and runs with them, cochanis 30 playon-modeled characters with preended backgrounds. This means viewing the action from a limited number of camera angles, but play much lass deemed on the PlayStation's polygon engine, enabling the characters to have an incredible level of detail.

Resident EVI is one of those rere horse games that manages to be a grammer scory as a good horse fill more an expensive scory as a good horse fill more an expensive scory as a good horse fill more an expensive score and a score score

game follows a different storyline with each character. In fact, there's only one flaw we noticed — the dialog and voice acting are laughable (sample: Take this lockpick: No, the master of unknowing, can use it best?), lists once, it would be nice to see a company other in a few cortin books, or samply section. Here, it is a glamma fault in a game that otherwise a small landmark of quality design. As distracting as it is, however, it is a testament to verything design both.

Resident Evil that you can mostly ignore the galfs and move on.

With liberal amounts of action, challenging game play,
smooth control, and plenty of genuine scares, this is one game



Scary, bloody, and loeded with action, this gam has it everything a good horror game should

mildly repetitive. Also, the enemy Al doesn't seem as challenging as in the PC version, although to be fair, that may simply be a reflection of being overly familiar with it by now

Overall, you still can't go wrong, and if you've got the ability to fly against someone else, it doesn't get much better. Rating: ****



Battling other glent robots is fun but Krezy Iven just doesn't lest long enough to let you enjoy it

Krazy Ivan Publisher: Psygnosis

Developer: Psygnosis Compared to the disappointing Metal Jacket (a Japanese release from Solan), any giant assault robot game for PlayStation looks good, Krazy Ivan, however, stands

on its own as a qualified success. Each stage has the same structure: the combat area is divided into four or five (depending on the stage) "arenas," in which you square off one-on-one against an alien combat robot, then set harassed by other, lesser war machines between battles as you make your way from arena to arena. When all the aliens in a stage have been defeated, you take out the alien generator and free the sector. The game is incredibly well animated, and every stage is half-shrouded in fog, which completely hides any draw-in Between stages you get a chance to upgrade weapon systems and the spnnkled FMV sequences

range from painless to humorous. On the other hand, while the game is set all over the world, from Russia to Japan, there's little variation from place to place. The enemies are different, but the stages are functionally laid out the same way and there are only from of them. And like other PlayStation titles, you can beat this game in a few hours. It supports the PlayStation link cable, so you can battle other human players, and if you can afford the set-up, it extends the value greatly. In the end, Krazy Nan is a good game of which you just wish there was more. Rating: ***

Saturn

Hi-Octane Publisher: Electronic Arts

Developer: BullFrog Yet another in what is sure to become a long list of PC ports to the 32-bit consoles, Hi-Octano from Builfrog suffers deeply from PC-itus. While the PC has only recently become known for fast, smooth gameplay, these are features that have been expected of dedicated gaming consoles for years. With its blocky graphics, devilishly slow frame-rate, and nebulous controls. Hi-Octane simply lacks the focus of most console games. Due to the fact that the PC version is just less than a year old, it would have been nice to see some sort of undate in the console version, but

the game is a very direct port. Reminiscent of Psygnosis' Wipeout or Sega's Cyber Speedway, Hi-Octone sumnly doesn't match up to the refined graphics, smooth gameplay, and



ile Hi-Octave may look like other recent 32-bit hovercraft racers, it unfortunately does not heve the same smooth gemepley

responsive controls of these console titles. One truly awesome concept introduced, however, is the realtime morphing tracks which add a great deal to the game's challenge and is sure to be a feature copied in future

racing titles. The line between the PC and 32-bit consoles has grown hazy in the past year, but titles like Hi-Octane prove that what works on one machine may not work so well on the other. Rating: **

Saturn

GUARDIAN VARIET

Guardian Heroes Publisher: Sega (Japan)

Developer: Treasure So far on the 32-bit systems we've seen side-scrolling platform games, 2D fighters, shooters, and now, the side scrolling beat-'em-up has made the jump from 16- to 32-bit. Guardian Heroes may be the primacle of the senre, but

even the best is still a bit on the mindless side. There is no questioning the game's graphic prowess and ability to handle many, many sprites onscreen at once without any slow-down, but it's hardly a reason to buy a next-generation machine. There are nice innovations, such as the use of three separate levels of field depth which gives it a 3Dish feel, but it's

nothing to exactly marvel over. Other positive touches include a Vs. mode, the ability to play with as many as six players at once, and nooth scaling.

In the end, Guardian Herges is a dream-cometrue for die-hard fans of the genre, and good mindless fun for the rest of us, but not much more. The enemy At is still less-than impressive and the action is predictable and repetitive. What's perhaps most

disappointing, however, is the under-use of the hardware. Treasure's dedication shows through in the graphics and character development, but seems to have falien short when it came to using the potential power of the system for creative gameplay. Rating: ***



es like Fine t and Streets Roge, Guardies es revi sic genre in a ajor way (top) ur cherecter's y to hop fro one field of pley to the next to

little more than on homers to 35 nepley (left)

NEXT

The graphics of World Cup Golf elone ere enough to make this title stend out in e long list of mediocre golf games

World Cup Golf: Professional Edition Publisher: U.S. Gold Developer: ARC Developm

It is every writer's nightmare to have to review a golf game, not because no one likes golf games, but rather because there is so little left to say about the genre. Fortunately, World Cup Golf is a strong enough title to support at least one more review. What makes playing this game so enjoyable isn't its ingenious interface (because the interface is barely noticeable); nor is it the realistic bird sounds which break the game's silence on a regular basis. And it's not the dramatic fly-by feature it demonstrates on every tee shot. What makes World Cup Golf fun to play is the realistic and simple gameplay.

Featuring several modes of play, including Single Match, Stens Match, Texas Scramble, or Tournament Play, World Cup Golf does a very nice plot of taking you to the links in a comprehensive fashion. Also adding to the sense of realism are the excellent graphics which deport the sense and beautifully kept Hyatt Dorado Peach pourse.

Beach course.

The only real drawback to the game is that there is only one course available for play, it seems almost a shame to create such enjoyable gameplay and then only offer one course on which to enjoy it. Hopefully, there are follow-up courses in the works.

Ratinic: **x**

3D0

Lucien's Quest Publisher: Panasonic Developer: Micro

Cabin/Panasonic
While by this time the 3BO has seen at least one attempt in practically every genre, the classically Japanese style of RPG hasn't been one of them, until now — and some days it just doesn't pay to get out of bed.

It's difficult to pin down exactly where this game goes wrong, it could be the primitive game mechanics—a more paint-bynambers RPG structure is hard uninspread storylen, or rather, tack of any story at all—this is a sense of epinodes with goods, not a story per se. Maybe it's the god-wild utilized and laren humor—wadning through the game is text is the thetray equivalent of

Inparactive 10-year-old. This is a straine because there are hints of creativity here and there. The traditional 20, sprite beased characters have been set down in a 30 polygomodeled and texture-mapped word, which gives the game a different and, at times, relatively impressive graphs siyle. The battle sequences are moely special effects the developers pulled out, when casting specials of the developers pulled out, when casting specials could be the developers.

by an earthquake, are incredible. The few interesting parts are cappied, however, by the game's lackbuster execution. It's not a pentful experience, and it's over quick enough (more experience and PS over quick enough (more experience APC) frantiscs can expect to finish this in all of 10 hours) but there's not much to recommend it either. This is as exerage as it gets. Rating: **x**

Jaguar

Brett Hull NHL Hockey Publisher: Atarl

Developer Ringler It could be regard that a good hockey game is enough to sell an entire hardware system. There is, after all, probably no other sport that matches so closely the formula for an excling videogame Brett hild Plint Hockey makes a valent effort at fulfilling the promose of a great nockely jame and, in fact, does offer all the features that would be found therein, but it misses on one very crucial apper, is Smooth action.

with makes a great hockey, games may have a maying else? Fast, resisting, and smooth action. Fast, resisting, and smooth action. The gamester in Poet Friel With Modely is plerty feat and, with read players and close eltention to hockey's rules, the realizm effective. But the key element missing from the game is the smooth action. Aside from the fact that a hockey game needs to set the flusion of moving on ioe, it's important to keep the action smooth action. Aside from the action as more than the set of the flustion of moving on ioe, it's important to keep the action smooth in order to follow the

often hectic pace of the game.

Jaguar



RETROFIT

Defender 2000

Publisher: Atari Developer: Atari

Agreement of definition for the how been blevin level by the original Definition on the property of the proper

should is how not those Microsy mission must be a When according from its heritage, post Ool is a fun, goodwide of the property of the property of the property of the best that description could stag any number of recent shorters. Three's no doubt his self session, but only against all the games that copied its original formula, but it's definitely in the same class. If you're commond Definition was the colorist given ever, then buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy Defender 2000 ASAP out judge it not se an integer pour them buy the property of the property of the property of the season and the property of the property of the season and the property of the season and the property of the season and season an

Rating: ***

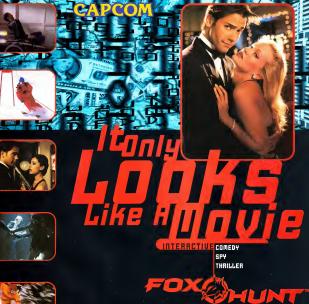
Brett Hull's herky-jerky nature not only takes away from the realistic look, it also makes it difficult to follow the action of the game.

In the end, Brett Halv MHL Hockey, with its three camera options, commentating from Al Michaels, full NHL roster, and realistic graphics, would have no problem holding its own against any competitor if it weren't for the choppy gameplay.

Rating: **



Brett Hull's grephics and viewing angles make it e worthy title



All 16mm full-motion video, it's got the look and feel, the characters and plot, of a feature film. And it's got you, Jack Fremont — TV trivia geek with an empty fridge. Now your days of simply watching the screen are over You'vs got to observe. Think. Decide. Act. And watch your back — every moment, every move. You've got 24 hours to save the world, get the girl, and return the tux. How it ends — and there are 10 possibilities — is entirely up to you.

So don't just sit there... YOUR MOVE.

See it at http://www.capcoment.com











rating neo-geo pc



Atari's first stab at a 3D bray Fight For Life manages the look of a next-generation fighter

Fight For Life Publisher: Atari

Developer: Atari Upon first glance, Fight For Life, a 3D polygon-brawler à la Virtua Fighter, appears to be a true next generation fighting game. The polygonal characters are nicely defined with detailed texture maps, the animation is smooth enough not to notice otherwise,

and the rotating camera swings about the ring in true 3D form. The problem comes when the gameplay is put into action. While each of the eight characters has a generous list of special moves (a list that's expanded with each

characters to show off their fighting process is a painfully slow process. Beyond the decided lack of snappy response. Fight For Life also takes entirely too long to run the course of a single match, A single fight should never last long enough to bore the player, but

this one does. There are a few nice features like the ability to move in real 3D, and its innovative defense system. but when paired with the sluggish gameplay, the strengths just aren't enough. What keeps this game from being really good is not a lack of good solid fighting game features, but rather the failure to

make them all work at a page fast enough to make this the exciting game it was intended to be. Rating: **

Zoop Publisher: Viacom

Developer: Hookstone Ever since the gargantuan success of Tetris, developers have

(11111) SEE



With its bright colors and sim graphics. Zoon maintains the classic look of the puzzla gama been shooting for that next big hit in the puzzle genre and while Zoop is an enjoyable game, it's not exactly the second puzzling Following in the footsteps of other popular puzzle games, the graphics are ultra-simplistic to the on the other hand, is fast paced and demands the attention of the player from the very start. The stratedy elements of the game consist of matching like colors to diminish the encreaching stacks of geometric shapes while protecting your central position in the ring. The twist is in the method of changing your own

color which affects your ability to fight back the stacks. Zoop is the kind of same that either will or won't grab you, but it's not the kind of game that's likely to consume countless hours of your life, Games like Tetris and Bust-a-Move have an undeniable magic, and while Zoop has the mechanics of a great puzzle game, it lacks that magic. What's great about a game like Zoop, though, is that it doesn't take much of a

yourself and you won't lose your girlfriend in the process. Neo-Geo

Rating: ***

Real Bout Fatal Fury Publisher: Neo-Geo Developer: SNK

Neo-Geo has made more 2D fighters than every other software company combined. And all that practice has started to pay off with Real Bout Fatal Fury You're can move in three 2D

planes, destroy objects in the background, and fly go off the edge. The characters from the Fatal Fury series are all here and their moves have all been balanced to make this one of the best Fatal Fury titles ever.

At first glance this looks like every other Neo-Geo game, but after a few plays you'll be able to tell that Real Bout Fatal Fury is a very solid fighting game. Rating: ***

Pulstar Publisher: Neo-Geo Developer: SNK

In a time when shooters have ceased to advance beyond early '80s innovations, Pulstar hits the shelves as if to reinforce the genre's nearing death

The game looks and plays much like Atari's Defender, with a couple of differences. The graphics are improved, the game is slower, and the gameplay is just not as fun. If it weren't for the

molasses like pace of the game, then Pulstar could've been another generic shooter. Instead, Rating: *

Samurai Shodown III Publisher: Neo-Geo

Developer: SNK Samurai Shodown is easily one of the most successful 2D fighters in the expansive Neo-Geo library. The Japanese market can't get enough, and the large cult following in the US accounts for The classic Shodown gameplay is intact here, along with some tweaked gameplay elements. Fans of the first two won't be let down by III, but there should be a much larger jump in quality in the sequel Rating: ***

PC

Arcade America Publisher: 7th Level Developer: 7th Level

The story is simple - while trying to wake up Joey from a deep slumber, his pet monsters blow countryside. What's the moral of the story? The plot behind this game is about as silly as the game itself.

The cartoon graphics are entertaining, if a bit overly gross at times. The main character's voice sounds suspiciously like Bobcat Goldwarth, which fits the style of the character, There's much innuendo and many dirty



Bad Mojo Publisher: Pulse Entertainment

Developer: Pulse Entertainment There's a slough of graphic adventures featuring rendered, photographic quality visuals, digitized sound, FMV, and plenty of multimedia flash. Most of them fall flat on their face, being uninspired, senseless affairs that have you clicking randomly around a screen hoping for something to happen to advance the story. So it's refreshing when something new comes along.

Bad Mojo isn't the best graphic adventure, but it's got something that counts a long ways - peculianty. No other adventure has ever cast the player in the role of a cockroach Additionally, no other adventure has been as willing to show the savage gruesomeness of mankind's sloth

Entomologist Roger Samms is transformed into a cockroach before he can escape with 1 million dollars in purloined research funds. Using only three arrow keys, you guide Roger, in cockroach form, through the underbelly of a condemned apartment building in the bad parts of San Francisco. All things repulsive are in this environment, from the rotting corpse of a trapped rat to the neighbor whose pants are always four inches too low, a T-shirt of indeterminate coloring, and a can of warm beer in his beefy, sweaty hand.

Bad Movo isn't for everyone, if you're squeamish or have a weak stomach, you should probably steer clear. But if you're looking for something "refreshing," well then it's worth a look. Rating +++







What you've been waiting for. True 360° movement in 3D. 30 gut-wrenching levels. Robot enemies that learn your moves. Descent Is now on PlayStation."

including 5 new anarchy levels. "Practically the definition of cool!" Game Players









BY CAMERS, FOR CAMERS,"







Introducing Descent II. 10 new weapons, 30 new levels. Toggle floodlights, afterburner speed doubler. Twice the 260-degree insanity. You're going down. Again.

"Sequel of the year!"



30 new mind twisting fevels * 10 new destructive weapons systems including the fully automatic Gauss Canton • Pure 360-degree madness!



New "quidebot" affy leads you through fevels. . Toggle beam floodlights that turn on and off, . Afterburner that doubles your speed.













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Inacconstant Cart applicances.

SILVER BULLET

The Beast Within: A Gabriel Knight Mystery

Publisher: Sierra On-Line Developer: Sierra On-Line

Known for its graphic edventures, Sierra On-Line is trusted to dream up rather advanced temperatures for dreaming players (loof knows it's got the money for it). Using the same engine introduced in Phartisemagoria but in far better ways), Jane Jensen, creator of the first of the senes, continues the story of shadow hunter Gabriel Knight. This time, he's in Germany batting ferocolous wereworks.

As far a graphic adventures go, this is one of the beat, incorporating a disclassified and evolved storyfiem with a negotive set of postprint or classified and evolved storyfiem with a negotive set of postprint graphic spaties in or easy lock, set of the disclassified in particular set of the particular set of the set of set of the set of the set of the set of the set of set of the set of set of the set of set of the

Phantaemagova's downfall.
The game also enables you to play one of the more interesting characters from the Gabriel Knight story, his assistant, Grace. Wonderfully played (and appropriately sardency, she's a great change from the southern drawl of Gabriel. The Geast Within beinds FMV into a graphic solveniture that can be both humorous and trightening. Hopefully, this one is the first of many yet to come.

Ration: ******





There are all sorts of platforms to run and jump from in Arcade America the twisted, new and moderately fun cartoon adventure from 7th Level

jokes, so while the cartoon graphics might make this title childsafe, you probably wouldn't what them anywhere near it. Arcade America even goes so far as to show the crack in Jeey's low-pants character, and we won't even mention what happens when your character runs into the rear of a bear on the road.

The gameplay, however, is surprisingly smooth for a Windows game. It's an interesting platform puzzler, and some of the challenges will surprise even the most adept gamer. Still, if you're looking for a good action title, there are better ones out there. Rating: ***

CyberMage Publisher: Origin Developer: Origin

D.W. Bradley, the creator of Origin's CyberMage, is probably best known for his Streech published Wizardry series of RPGs. With CyberMage, Bradley took a genre that's growing old — the just-like-Doom-but style that's so prevalent nowadays — and made it even older. Sure, there's a lot of great

new thrugs you couldn't do in Doom, blue care, for example, use either technological weapons such as grandess and lusion gurs, or you can use magical powers or you can use magical powers or your can use magical powers or your can use magical powers or with the demand of the called margin to riflet damage or your neimer. There are all storts of herms to find, putalize to solve, and keys to locate, and keys to locate, and keys in locate, and keys to locate the locate to locate the locate that the locate the locate that the locate the locate that locate the

CyberMage has great grantics, beautiful sound, digitized video, and a detailed, entertaining storyline. It's too bad, for all that, that it still doesn't stand above the rest of the first-person shooters that clog software store shelves.

Rating ***x**



Occasionally you run into helpful resistance fighters in CyberMage



Druid's combat interface is simple, but it becomes boring

Druid Publisher: Sir-tech Developer: Sir-tech

If there's a happy medium between computer role-playing games and graphic adventures, Set-each seems to have found it. Drutp plays like a graphic solventure. You move your character around, collect items, solve puzzles, and think your way out of dangerous situations. And yet it also has elements with to RPGs: experience points, and RPGs: experience points, and

spells, conversations with

nonplayer characters, and handto hand combat.

Sirtech managed all this in a rather seamless interface that, while still awkward at times, is a quick and easy way for nonce players to get into the game. Experienced gamers will pick it up immediately. The graphics are crisp and beautiful, though you'd

better have a powerful machine if

rating pc

you don't want to feel like you're moving in slow motion.

Nevertheless, hard core fans of eather RPS or graphic adventures won't find much satisfaction. The puzzles can be rather simple, and though the puzzles can be rather simple, and though the choice playing frantics will be annoyed at the lask of statistics and manipulation of your character. Stall, if you're just getting rind either gerne, this one does a great job of taking some of Rating's the puzzles of both.

Frankenstein: Through the Eyes of the Monster Publisher: Interplay

Publisher: Interplay
Developer: Amazing Media, Inc.
Imagine, if you will, a world where
Tim Curry is Mary Shelly's
maniacal, demented Dr.
Frankenstein. Now, imagine
waking up as a monster, created
for no other reason than scientific

waking up as a monster, created for no other reason than scientific cunosity. If you can do that, you've aiready had more fun then you would if you played Frankenstein: Through the Eyes of Frankenstein: Through the Eyes of the Monster, Surpassing even Shivers in tack of gameplay, logic, and fun, Frankenstein is a trip through a truly boring and



Tim Curry ploys Dr. Frankonstein is Through the Eyes of the Monster. Shouldn't he be wearing a leether miniskirt and tons of lipstick?

noninteractive environment that's sure to give you nightmares, but

not of the kind intended.
You play Dr. Frankenstein's
famous monster. Robert DeNiro
you're not, and Tim Curry is a far
cry from Kenneth Branaugh.
So you continue on, you'll solve a
multitude of tedious puzzles set
before you. Some of the puzzles
don't even make sense, such as
the hedde maze, which seems to

change pattern at will.

The end result is a game that makes about as much sense as bathing in sewage. It's got pretty pictures and pienty of multimedia glitz, but in a day and age when

that stuff is a dime a dozen, it just doesn't cut it. Retine: *

Grand Prix Manager Publisher: Spectrum Holobyte Developer: Spectrum Holobyte

Regarding Formula One rooms, the introduction to Grand Pith Manager states: "Essentially, it's as much sobut book-levelping as it as blook driving feat." With this in mind, Grand Pith Manager succeeds very well at it a goal — simulating the responsibilities and include of a Formula One team manager. If you're someone who's been dying for a simulation of this sort to hit the market, then your proyeers have



been answered

One of the mony deteil-intensive screens featured in GP Menager

If you're a game player who deers a little bit of fun in the tittles you purchase, however, stay far, far away. People work day in and day out accomplishing the tasks this game sets before you, but they get paid to deal with cranky vendors, snotty drivers, and touchy mechanics. Why shell

out \$50 for the same experience? There's some things that don't make good simulations. Formula One rocing is a great source of excitement, provided the player can ast behind the wheel and experience the 200 may be used to the control of the wheel and experience the 200 may be used to the control of the wheel and experience the 200 may be used to the control of the things of the control of the things of the control of the things of the control of the provided the control of the provided the control of the

Screamer Publisher: Virgin Interactive Entertainment Developer: Graffiti

There's a whole lot of racing sims on the market. Screamer, however, has something most don't—it's a lot of fun without requiring a Ph.D. in racing mechanics to appreciate. The game has more of an arcade feel than a sim. which is a plus if

PC





determine if the overheed view in Shannara wes intentional, or e cru joke. The combet scones in Shannara make a mockery of decent computer ro ploying games

FEATURELESS

Shannara Publisher: Legend Entertainme

Developer: Legend Entertainment Terry Brooks' Sharmar book sense are some of the best in the faintasy genre. The quality and depth of the realm of the Four Lands make his works almost historical in content. This's what has drawn his readers back for more time and agam, through all seven of the movels in the sense. We, strangley, that's

again, through all seven of the novels in the series. Yet, strangely, that s exactly what's missing from Legend's graphic adventure based on his works. The story is incredibly linear — you have no choice but to follow an exact

path laid before you. That's not so bad if the path contains an entertaining and strong story, but the tale here is incredibly boring. There's hardly any depth to the plot—the evil nemess of the first book, Bross, returns to wreak his revenge on those who destroyed him (woo-hoo). It sounds more like a "Star Trek" episode than a Terry Brooks story.

than a Terry Brooks story.

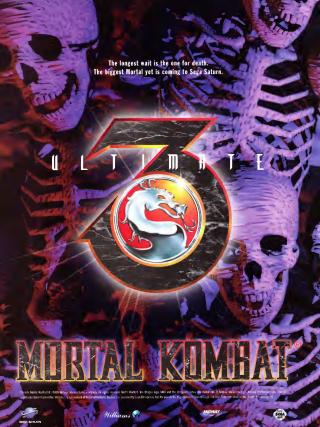
The interface is typical Legend material, slightly reminiscent of Mission Critical. Except this time, there's a clunky overhead view for moving the characters over a long distance. The combat interface is probably one of the worst of its kind.

The cinematic sequences unfortunetely fell flet with dated grephics and uninspiring music

You see a picture of a monster, and you can either attack or retreat. Not exactly heart-stopping stuff. This one loses on many counts, if you're a fan of Brocks, you'll be

This one loses on many counts. If you're is fan of Brooks, you'll be disappointed in the lack of his trademark story elements. If you like graphic adventures, you'll be disappointed in the clunky interface, drab graphics, and overly simplistic puzzles. In any case, it's one to stay away from.

Rating: * * *.





Crystal Dynamics, the creators of Slam 'N Jam '96", and *Next Generation* magazine are sponsoring a contest that brings back two of the all-time greatest players ever to have graced the basketball court—Magic Johnson and Kareem Abdul-Jabbar, Just answer the four questions below about these legends and you could score some incredible prizes!



 What colleges did Magic & Kareem attend?
 What is Magic's real first name? 3) How tall is Kareem?

4) How many professional championship rings did they win together?

CRANO PRIZE .

One winner will receive an official NBA®.

Spalding™ basketball signed by Magic and Kareem.



FIRST PRIZE
Five Winners will receive signed photos of Magic
and Kareem, plus a copy of Stam 'N Jam '96 on the
platform of their choice (either PlayStation or
Saturn).



Twenty-five winners will each receive a copy of Slam 'N Jam '96 on the platform of their choice (either PlayStation or Saturn).





DYNAMICS

THIRO PRIZE

Twenty-five winners will receive official Slam 'N Jam T-shirts.

During your next road trip, check out the hottest basketball sim featuring fullcourt, in-your-face action for up to four players—Slam 'N Jam '96! Team up with Magic and Kareem as you

- set picks, isolate players, and double-team on defense
 crash the boards in the Franchise-Player mode
- view instant replays from multiple angles
 substitute players from a deep bench
- · track game, team, and top player stats
- get the supercharged commentary of sports' favorite Van Earl Wright



CONTEST RULES

To Enter: Submit your answers on a postcard and send it to: Slam N' Jem Contest, Imagine Publishing, Inc., 150 North Hill Drive, Brisbane, CA 94005. One entry per person. Entries must arrive no later than 6/15/96. Be sure to include your name, address, and daytime phone number Eligibility: The contest is open to U.S. residents 18 years of age or older, except employees and immediate family members of Crystal Dynamics and Imagine Publishing, Inc., their affiliates, subsidiaries, sales representatives, distributors, advertising egencies, promotional agencies, printers, and pets. Selection: Winners will be selected by 6/30/96 and notified by mail or phone.

Crystal Dynamics, the Crystal Dynamics logo, Slam 'N Jam, the Slam 'N Jam logo, and Championship Sports are trademerks of Crystal Dynamics. © 1996 Crystal Dynamics, All rights reserved.

you're just looking to get the cars on the road. You're able to drive a variety of sports cars, from a Ferrari to a Porsche. The tracks are varied, and if you're lucky enough to have more than 12 megabytes of RAM on a Pentium machine, you'll get to see some gorgeous scenery.

Still, this is a simplistic title It's a challenge to rise through the ranks in the championship mode, but you're still only racing amund in circles. In an effort to make things more interesting for lone players, there's some special racing modes, where, in order to finish the track under a certain time, you have to either hit cones

along the way or drive in a slalom. player network mode rounds it out as a quality racing title. There may not be a whole lot to it, but the graphics, playability, and selection of cars with their different qualities make it a title worthy of a look.

Rating: **** Separation Anxiety Publisher: Acclaim

Entertainment, Inc. Developer: Software Creations Windows 95 is opening doors to the generation of 16-bit platform gaming titles. If these are the

games that we're going to see however, perhaps it wasn't such a good idea after all. Separation Anxiety follows the

uneasy alliance of Maryel comic book characters Spider-man and Venom. Their mission is to recover five alien symbiotes who, when joined with men of evil intent, can wreak havon on the world. You can play either as Spider-Man. Venom, or both

This is an arcade bash-fest with little in the way of the intricacy and depth possible in a PC game. It's a great port of an action game to the PC, and it might be welcomed by players eager to try out what they've been missing without a Super NES, but nowadays these games are a dime a dozen in cartridge form. Considering the price of a present 16-bit system, it would make more sense to use the Windows 95 CD for a coaster than

as a basis to play a game like this. Rating: *

Shivers Publisher: Sierra On-Line

Developer: Sierra On-Line Will Myst ever die? Sierra's newest addition to the over-used over-done, and over-popular genre is a game that outs you in the shoes of a teenager stuck in a Created by a scientist (sort of like a deranged Robert Ripley) obsessed with the unlikely, the



One of the first frustration puzzles you'll find in Shivers

place has a history of the unusual. Two teenagers mysteriously disappeared there 15 years earlier, and, of course, there's evil mons roaming the halls, looking for human life-essence to suck down like a cool lager. It might sound like the basis of a decent graphic adventure, but the long load times, grating music, and overreaching puzzles keep it

The graphics are stunning. there's lots of live action video. sound bites, and an easy-to-use interface; but in the end, the game challenges you to solve a bunch of puzzles, unlock an endless doors, gawk at rendered objects, and test your mouse button clicking skills.

medinare at hest.

Rating: ***

Arcade

Avengers in Galactic Storm Publisher: Data East

Developer: Data East Data East has orchestrated all the elements to piece together what

would seem like a good fighting game - a Marvel license for the Avengers, 3D rendered characters and graphics, and a twist enabling players to summon extra characters into the game.

For all of this hard work, in addition to moving into an area rendered 3D graphics in a fighting game - Data East got this



Galactic Storm's weak gameplay is slightly enhanced by its 3D charecters

Genesis



TUFFED

College Slam Publisher: Acclaim

Developer: Iguana The original NBA Jam was a major hit at the

arcades more than two years ago with its "real" NBA players, impressive graphics, spectacular dunks, and four-person play. Since then Jam and its various incarnations (T.E.) have appeared on every system known to the human race. And while the first few were major hits and technologically sound games, each new addition just got increasingly stale and has been surpassed by games with sharper graphics smoother play, and more realism

The gameplay and engine of NBA Jam are now being put to the college game in College Slam. Unfortunately, companies can't use photos or names of college players, which eliminates one of the original charms of NBA Jam. There is an option to enter your own names for players and edit their stats, but without the pictures or realistic likeness on the court (often the wrong skin color and size), you never get the feel you're really controlling a college team. Add to that uniform colors completely wrong (Illinois doesn't wear white and blue uniforms), and College Stam isn't original, realistic, or any kind of improvement over the first NBA Jam.

Rating: **



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Arcade

RENDERED USELESS



Cherecters have grown bigger but, In some cases, wear less clothing than in KII (top left). Beckground themes are teken from every time period imagineble. Spinal gets deboned (ab

Killer Instinct II Publisher: Midway

Developer: Rare/Nint

Developer: Rare/ kartendo
With every successful game comes the inevitable sequel. Killer
Instinct, an aberration of Mortal Kombat, is like the Frankenstein of
fighters — a prerendered construct of other bitles strewn together —
and now we have the bride, or son. of Epinkenstein. Killer Instinct II.

The ricely rendered fighting creatures sport the same multienoveintensive strategy as before, they're larger and better looking, and there's more of everything that made this title a hit the first time around—ultras, combos, blood, giver, note outliet easient (all female characters are abnormally chesty), and the great sterior sound of the first as well. That is, if you life the style of fighting that releas more on memortring combos than head-eye coordination and, in a wax, skill, MRP restrict III is till of that same tributing style.

a way, skill. Niner instruct it is full of that same righting style. The larger characters have been rendered in clean, sharp sprites, appear more detailed, and now show more definition, though they still don't fight in true, realitime 3D. So, while all the characters may look better, the consequence is slower, even chappy movement, and

though it's a subtle difference, the fighting is slowed down, too. There are at least 15 new backgrounds, a number of them are slightly interactive, though only in the most boring way — Spinal's ship contains breakloble critical and rowing skeletons, for instance and the return of nine characters from the original, including three new ones. Of the returning characters are Pulgers, Glacius, Jepo, Orchid, Sabrewulf, TJ Combo, Reptor, Chief Thunder, and Spiriel. The three new characters include Kim Wu, a femse numchaku-wedding Nings, Naya, a fierce and hard-bodied savage woman who fights with hunting krines; and Tusk, an overnuscled long-hair brute who wears nothing more than a sheath over his crotch.

N/I bhighlights, like the first, imballanced and less strategy intensive flighting floased on memorang combo moves that add up to memorating combo moves that add up to memorating combo moves that seem of their parks, and has delements, yet without changing much from the original. Among the new features are False moves, Dash moves for some of followings by portneyd from Cappoint's Dark Stakers and other titles). Run past moves, and more.

But as a whole, this new coin op is what MK III was to MKII — a money-make with the same premise, look, and gameplay as the first, adding just enough changes to call a "new" game.

Rating: ***



Arcade

BORN TO BE WILD

Manx TT Super Bike

Publisher: Sega Developer: Sege AM3

Rating: ****

With the release of Manx TT Super Bike, one of the fastest and most dazzling bike coin-ops in the arcades, the world has just received the next evolutionary step in bike racing sims.

Based on the relativened and memorand receipt from the bisis of Man, Maner TT1 is the necessic conceptate from the setting AMS form that created Seps Relay Chemonophin, belt cony in Maner, TT1 to only game that is over made us actually dary, it amustless speed better than any other condig game exercited and setting the setting of the setting and th

Rival bleas near the dialogue of the Electronic Art hit Road Rear in terms of competition, but without the violence, and are meddlesome and clever — bumping, nudging, and cutting you off throughout the race — and they appear near the finish line to oust you any charace they get. What's wonderably unique to the black and reverberation system is the way opponents work with it — without notice or warming. Me All physically pushes your bids from behind, altering the direction of your course

notice or warning, the AI physically pushes your bike from behind, altering the direction of your course, from so given manual or automatic transmission, just two versionists (over the shoulder and first person), and only two courses, Lawsy Coest (easy) and the winding TT Course dawned, any other game would receive a lower rating, but Manur TT is a technically advanced tour de force in realistic simulation and easy evens our highest rating.

The over-the-shoulders when is not person in early person in e

at Golfland arcade: a huge crowd swelling in double digits around Street Fighter Alpha II, yet one more 2D fighter, and not one person playing Data East's fighter.

But Avengers boasts garmos, bellis and winstless — like of the current beat-femups — that make the tatractive. Thos super meters, one when misroed out, enables you to summon a pre-chosen Avenger tearmmate to zoom in for a surprise whomping; and if the other meter is full, you can pull off an "Uttra," which resembles the Street Fighter Alpha screenflashing Super Power Attock,

Other qualities that make Avenders right for success are that the characters aren't tiny, they're big. Offensive attacks are varied and the graphics resemble, in the loosest sense. Killer Instinct I's; and you could play in either Story mode (fighting in teams against the baddies), or Vs mode, which is the familiar one onone side-viewing beat-"em-up. But the unfortunate lack of character overall game, and the average gameplay and choreography. though not nauseating, was nainful to watch

painful to watch. Unfortunately, the competition is just too ferce in the fighting gener for an everage game like everage game like long line of poolial profescessors: Virtua Fighter I and II, Tekken I and II, Haller Instinct I and II, Mortal Kombal I through III, and Ultra MK, the entire Street Fighter sense, X-Man, Marred Super Horose, Dark Stalkers, etc., etc., and our point is clear.

Sky Target Publisher: Sega

Developer: Sega What initially seems like a super speedy flying game well dressed in texture maps, polygons glitz, and full of promising gameplay, its nothing more than Sky Target — a fancy-shmantzy remake of After Burner, and a lot less fun.

In the beginning, you suit vourself up in one of four planes (F.14D, F-15S/MTD, F-16C, or the Rafael M) and can fly through gorgeous cities, cloud-filled skies, forests, and other environments choosing from at least two different flight paths that book up in the end for the mother of all bosses. Your goal is to avoid enemy fire, swerve through oncoming projectiles and aimlanes, and blast everything in sight using either unlimited machine fire or heat-seeking missiles; and at the levels' end you're challenged with boss crafts that range from a deadly helicopter, a massive stealth bomber, and more.



"Best game I've ever been in!" Harika, Alien

"Visually rich-

a captivating sequel!"
Fred Ford and Paul Reiche III,
Designers – Star Control and
Star Control II







STAR CONTROL 3

THE FATE OF A THOUSAND WORLDS IS IN YOUR HANDS... AGAIN.

ACCOLADE

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Created by Logend Entertalement and based upon characters created and used under Econse from Paul Riche II and Fred Ford.





Yes, Sky Target is as well shaped in gaming terms as Cindy Crawford is in a swimsuit, but what's to talk about? The polygonal crafts and texture mapped backgrounds are as good looking as any of the best looking games in the arcades (with little to no draw in and strong design), but the actual gameplay is so simplistic and formulaic that the blasting and dodging isn't a challenge after the first two levels. The single-seat cabinet with joystick is easy to control. but the acceleration throttle is gone, leaving the player with just a joystick, and the game only permits forward fiving motion

unlike Sesa's own Afterburner

throttle) and the competition's

(which had the acceleration



Sky Target's pretty backgrounds and graphics still don't make up for boring, formulaic gameolay

(Namco's) Air Combat 22.

The game would be different if it conveyed a different feeling, new maneuvering abilities, could be linked to others, or somehow brought something new to the genre, but somehow the strongest qualities of this flying shooter are about as distinctive as already chewed gum.

Ratins: **

Virtual On Publisher: Sega Developer: Sega AM3

Developer: Sega AM3 Virtual On, which was previewed in NG 15 as Cyber Troopers, is an unusual one-on-one action fighter that ups the artie on like predecessors by opollatinal it with

giant Gundam robots. Although closely comparable to Namco's once-popular but sluggish tank game Cyber Sled. Virtual On only shares the basic premise: one-on-one fighting in an enclosed arena. But AM3, the makers of Sega Rally and Manx TT Superbike, has improved on all of nval Namco's basic game elements. By making innovative use of Z-axis 3D hovering and drifting moves, a swarm of various heat-seeking projectiles, and defensive sprints and blocks you're brought to a new level of play

that's different from, faster, and



Gundam 'bots box it out in Seg-Cyber Slod-beating Virtual On

essentially more dynamic than any aspect of Cyber Sled.

Using double Model 28 boards to create its 3D playing arena, full 3D movement and combat, a twin Virtual On cabinet generates 60fps action and quick camera action angles to zoom in on impressive explosions. You may get a lost in your first couple of tries simply because of the fast pace and whizzing projectiles, but once you've got a grip on the hovering abilities and the range of your weapons, you'll find that the hideand-seek strategies and guerrillabased offensive attacks make this a phenomenally intriguing title. The influence of Gundam (a Japanese senes that features animated robots) on Juro Watari and Korchi Ozaki, the producer and designer,

is very apparent in the character

design. Inevitably, as with many robot games, the unique but nonhuman designs can make for awkward battles at times.

It will be interesting to see how US gemers react to Japanese robots and the often awkward, containing up-close hand-to-hand battles. But with any luck, they'll see the depth of play and freedom of movement this hunt-and-kell title offers, and make it a hit. Rattlig: ****

SORRY!

No new games were made available for review this month on the following systems

Virtual Bo

Macintosh Super NES

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Electronic Entertainment

"★★★★★"
Fusion

"A time technical and animal that is sure to places even the most free similaring baseball fan."

Computer Gaming World



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Our complete "stats construction set" instantly puts every stat and rating under the sun at your fingertip Create unlimited custom stats displays for the utilizate managerial shall!



New player animations are smoother and more detailed, latting you aim for the inside corner. "Zoom in" beserunner windows let you make your best pick-off move to the bag.



Watch your best reliever warming up in the bullpen, and analyza your sterter's fatigue, pitch count, and parformance. When he's ready to go, you're ready to go!



DANIA DE LOS DE LA COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMP

Create your own players from scratch, or modify any player's ratings, or avan their physical attributas! The resulting pleyer will be true-to-life, on-field and off.



Experience the best of baseball history with the bonus 'Legends' League—12 great legendary teams from history, come to life in 12 beautifully rendered old-time stadiums.



Optional wide-angle pitcher and batter viaws recreate the traditional look of a broadcast basaball game in beautiful 256-color SVGA graphicsi



For maximum variety in gameplay, change any manager's tendencies on any team and see the results play out on the field and in the stats.



Hot new user interface gives you instant access to any feature. View and manage your team from the field, from the dugout, and from the General Manager's office!



This "fifth generation" fielding simulation has additional play animations, baseball plays, and graphics realism, resulting in true-life baseball gameplay.



It's all here: pick-off plays, hit-and-run, suicide squeeze, towering pop-ups, and more. The ultimate simulation of baseball, for everyone who loves the game!



PlayStation



ACCOLADE A

32-bit gamer's guide

Your guide to every 32-bit game released so far

Acclaim

Data East

Digital Pictures

Sees

Dark Legends (Japan)

Daytona USA

Double Switch

Deadalus (Japan)

inals roundup is Next Generation's
reviews list which provides a fully
inclusive compilation of all the
significant next-generation games released thus
far (and in this particular list, all Sega 32X
games have been included). Please take note
that some of the games reviewed here have
been superceded by sequels. In this case, the
review score of the original version should be
considered out of date.

In addition, a rating out of five stars does not provide enough information on which to folly judge a game, so if you require further information, back issues of Next Generation can be ordered on page 32, or you can consult NG OnLine at http://www.next-generation.com/ing/where full reviews are available.

Where a game name is accompanied by the suffix (Japan), it means the game (at press time) is only available as a Japanese import, and will not work on standard US machines.

Tms	Punusier	NG RATING
PlayStation		
Apile Warner	Virgin	**
A-Tran	SCE	***
Aquonout's Holiday (Japan)	ArtDink	****
ArcThe Lad (Japan)	SCE	****
Bassle Arena Toshinden	SCE	****
Boxer's Road (Japan)	New Corp	***
Cosmic Roce (Japan)	Neorex	*
Crime Crockers (Japan)	Sony Entertainm	ent ##
Crocom	Vic Tokai	**
Cybeno	Interplay	***
Cyberspeed	Mindscape	***
Cyber Sled	Namco	**
Cyber War (Japan)	Coco Nuts	**
Defcom 5	Data East	****
Dork Stolkers	Capcom	***
Descent	Interplay	****
Destruction Derby	Paygnosis	****
Doom	Willems	****
Drogon Boll Z (Japan)	Bandai	**
Gex	Crystal Dynamic	***
Goal Storm	Konami	****
Gunner's Heaven (Japan)	Media Vision	****
In the Hunt	Xing	*
In the Zone	Konami	***

SCE

Arrison

Timus	PUBLISHER	NG RATING	Tma	PUBLISHER	NG RATES
Kileak The Blood 2	SME	**	F-I Live Information	Sega	***
King's Field	Asomare	****	Galactic Attack	Acdam	***
Krazy Ivan	Psygnosis	***	Gotho (Japan)	Segn	***
Loaded	Interplay	****	Guardian Heraes (Japan)	Sega	***
Metal Jacket (Japan)	Solan	*	Hong-On GP '95	Sega	***
Mobile Suit Gundom (Japan)	Bandai	**	Hi-Dctone	EA	**
Mortal Kombat 3	Publisher	***	High Velocity	Adus	***
Motor Toon GP (Japan)	SCE	**	Johnny Bazookotone	US Gold	***
NBA forn Tournament Edition	Acclaim	****	Last Gladators (japon)	Kaze Co	***
NFL Gameday	Sony Interactive	****	Mansion of Hidden Souls	Sega	***
NHL Face Dff	Sony Interactive	*****	Mortal Kombet II	Acclaim	***
PGA Tour Invitational 196	Electronic Arts	***	Myst	SunSoft	***
Philosomo	SCE	**	NHL All-Star Hockey '96	Sega	**
Power Serve 3-D Tennis	Ocean	***	Dff-World Interceptor	Crystal Dynamic	***
Power Baseboll (Japan)	Konami	*	Parzer Dragoon	Sega	****
Roiden	Seibu	**	Pebble Beach Golf Links	Segs	***
Raymon	UbSoft	****	Rigiord Sogo (Japan)	Sega	***
Resident Evil	Capcom	*****	Quarterback Attack	Digital Pictures	***
Ridge Racer	Namco	****	Sego Rolly Championship	Sega	****
Ridge Rocer Revolution (Japan)	Namco	**	Skeleton Warriors	Playmates	***
Road Rash	Electronic Arts	***	Shinobi Legions	Segs	***
Shackwave Assault	Electronic Arts	**	SimCity	Maxis	***
Space Griffon	Atlus	**	SteamGear Mash	Takara (Japan)	**
Tekken	Namco	****	Street Fighter The Move	Acdzim	***
Total Eclipse Turbo	Crystal Dyramic	**	Tomo (Japan)	Tengen	**
Toskon Retsuden (Japan)	Tomy	****	Theme Park	Electronic Arts	***
Twisted Metal	SIE	****	ThunderStrike 2	US Gold	****
Newport	Bectronic Arts	*	Viraso Cop	Sega	****
Workowk	Sony Interactive	****	Virtuo Fighter	Segs	****
Wprout	Psygnosis	****	Virtua Fighter Remo:	Segn	****
WWF Wrestlemonia	Acclam	****	Virtus Fighter 2	Sega	****
X-Com UFD Defense	Microprose	*****	Wrava Roong	Time Warner	***
Zero Divide	Zoom	***	Virtual Hydlide	Atlus	**
			Virtual Wileyball (Japan)	Imagineer	
Saturn			Wicked 18	Vic Tokar	***
Astal	Sega	***	Wing Arms	Sega	***
Bottle Areng Toshinden	Takara	****	World Cup Golf Pro' Edition	US Gold	***
Bottle Monster (Japan)	Nexas Soft	**	World Senes Baseball	Segs.	****
Blackfire	Segn	***	Worldwide Soccer	Segs	***
Bugl	Segu	***	X-Merc Children of the Atom	Capcom	***
Clockwork Kright	Sega	***			
Clockwork Kreght 2 (Japan)	Segn	***	3DO		
Cyberspeed	Mindscape	***	Alone In The Dark 2	Interplay	****

Bottlesport

Bladeforce

BC Rocers

Burning Soldier

Bust a Move

Studio 3DO

Studio 3DO

Goldenar

Jumping Flash!

Kleak The DNA Imperative

Truz	PUBLISHER P	NG RATING	Tmus	Pususece	NG RATING	Tme	Punusers	NG RATING
Conson Fodder	Virgin	****	Space Hulk	EA	****	Supercross 3D	Atari	*
Copton Quezar	Studio 3DO	**	Space Pivates	American Laser 9	Games***	Syndicate	Ocean	****
Crime Potrol	American Laser Ga	mes **	Stor Control II	Crystal Dynamic	s ***	Tempest 2000	Asan	****
D	Parasonic	**	Starblade	Parasonic	**	Theme Pork	Ocean	**
Dosthizep	122	***	Stagen Invesion	Club 3DO	***	Troy Askman Footboll	Williams	**
Demoltron Man	Virgin	**	Super Street Fighter N'Turbo	Panasonic	****	Val d'Isere Skung	Atari	**
Drug Wors	American Laser Ga	mes **	Super Wing Commander	Ongin	****	White Men Con't Jump	Trimark	***
Family Feud	GameTek	***	Supreme Warrior	Digital Pictures	**	Walfcruten 3-D	Apri	**
Flying Nightmares	Domark	***	Syndicate	EA	****	Zool 2	Atan	***
FIFA International Soccer	EA	****	The Daedalus Encounter	Parasonic	***	Zoob	Vacom	***
Flostback	U.S. Gold	***	The Last Bounty Huster	Amencan Laser 9	Sames **			
Gex	Crystal Dynamics	****	Thome Park	EA	**	32X		
Ghast Hunter	Massushita	***	Trip1D	Wrap	***	Brutol	Gametek	***
Guardian War	Panasonic	***	VR Stalker	Amenon Liser 6	Sames***	Corpse Killer	Digital Pictures	*
Helt a Cyberbunk Thriller	Game Tek	**	Way of the Wortler	Universal Interac	tive ##	Corner Comore	Seen	
Acebreoker	Magnet Interactive	***	Wine Commander AT	EA	*****	Folyenher	Sega	**
Immercenary	EA	***	Wolfenstein 3-D	Id/Lopeware	**	Gall Manazine. Fred Couples	Segn	***
Iron Angel of the Apocalypse	Parasonic	***	World Cup Golf	US Gold	**	Kolhri	Sega	
Iron Angel". The Return	Parasonic	***	Zhodnost:The People's Porty	Studio 3DO	***	Knackler Chapte	Sega	**
lanne	Street Sports	**				Metal Hood	Sega	**
John Medden Football	EA	****	Jaguar			Mertel Kombet II	Acciaim	***
Killing Torne	Studio 3DO	****	Alen vs. Predator	Atari	****	Motocross Chempionship	Sega	
Kendam The Fix Reaches	Incorpley		Aton Korts	Atari	***	Metocross Chempionship NBA Jom Tournement Edition	Accissm	***
Lemmines	Pavanosis	****	Boldes CD	Apri	***	Next Tree	Dirital Pictures	***
Last Eden	Virgin Interactive	****	Battlemonth	CD	****	Perfort The Moven Adventures	Acomsion	
Lucien's Quest	Panasonic	*	Blue Lightning CD	Atan	***	Ouerterback Club	Accision	***
Mazer	American Laser Go		Brest Hull NHL Hockey	Atan	***	RN '95	Time Warner	
Maga Race	Mindscape	**	Bubsy Fractured Furry Tales	Atari	**			**
Microcosm	TAF Soft	**	Burn Dur	Aton	***	Shadow Squadran	Segn	***
	Panasonic	**	Cannon Fodder	Virgin Interactive		Siam City with Scattle Pippers	Digital Pictures	**
Myst		***	Checkend Fine		***	Stor Wors Arcade	Segn	***
Dff-World Interceptor	Crystal Dynamics	***		Abri		Super Afterburner	Segn	***
Need for Speed	EA SSI	****	Club Drive	Atari	*	Super Space Harner	Sega	***
Panzer General			Defender 2000	Apri		Тетро	Segs	**
PGA Your Golf '96	EA Sports	***	Doorn	Apri	***	Virtua Fighter	Segs.	****
PO'ed	Any Channel	****	Double Drogen V	Tradewest	**	Virtua Roong Delive	Segn	***
Primal Rage	Time Warner	**	Drogon	Atari	***	World Series Baseball	Segn	****
Quarentine	GameTek	***	Fever Risch Soccer	Atari	***	WWF Row	Acdem	**
Road Rosh	EA	****	Fight for Life	Atan	**	Zaxxan's Matherbase 2000	Sega	*
Rebal Assoult	Lucas Arts	**	FlipOut!	Apri	***	36 Great Hales	Sega	***
Samurai Shedown	Crystal Dynamics	***	Highlander	Atari	***			
Scramble Cobra	Panasonec	**	Hover Strike	Atari	**			_
Seal of the Phorosh	Panasonic	**	Iron Solder	Atari	***	For your in	iormatio	n
Shanghar The Great Wall	Activision	***	I-Wor	Atari	**	Here's what the ratio	ngs signify:	
Shock Wave	EA	**	Missik Command 3D	Atan	**	A STATE OF THE PARTY OF THE PAR		

Pitful The Mayor Adventures

Ruiner Proball

Studio 3DO

3DO

Crystal Dymmes ****

Operation Jump Gote

Sizm 'N' Jam '95

Soccer Kid

Tune Warzer

Atari

Atari

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If you enjoy games and want to work with a small, dynamic group in a great city check out Drive Dr. Studios at Jones Digital Century, Located in Denver, CO, the heart of the beautiful Rocky Mountain region, Jones Digital Century is now hiring for the following positions:

/lultimedia SOFTWAF Engineer

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or related field and 2-3 years working as a software engineer or programmer. You should be able to program in C or C++ and debug software using a symbolic or assembly level debugger. Experience developing software for Windows PC or Mac platforms required, 3D graphics or game development experience preferred. Knowledge in the areas of networking/Internet, soundcards, video compression, and 3D modeling/animation are a definite plus.

3D Modeler

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Programmers When we need a programmer, we want someone who can knock our socks off. If you can impress us with your experience on a multiprocessor and video-oriented platform, you might be that person. If we gave you a pop-quiz, would your C skills score an A? Can you apply Your creative problem solving to group collaborations and concurrent development environments? We welcome correspondence from qualified programmers looking to contribute to a top-notch team

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Are you excited by the possibilities and rewards we offer? If so, let us know you're out there. Our team works from our international headquarters in New Brunswick, Canada, where the usiness world is at our fingertips and the real world is in our backyard.

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corresponding

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Post modern

rom what I gather, your publication is supposed to be aimed at a slightly older and more mature gaming population, to which I belong I noticed while flipping through one of your issues that something seemed different regarding the ad for Wipeout for PlayStation. I found the same ad in a back issue of another gaming magazine and upon comparing the two, I noticed that your run of the ad censored (erased) the blood from the boy's and girl's faces and shirts. Please, you're playing to an older reader. I think we can handle a little fake blood. It's a small query but a valid one. Censorship is just another form of oppression.

James McGary Short Hills, NI

Those who compile the letters page were as puzzled as you to notice this, so we asked the powers that be why the ad was changed. Here's a (semi) official statement: "The Wibeout ads arrived at the Next Generation offices just days after an extended debate with one of the nation's key retailers concerning violent and misogynistic images in game magazines. On several occasions in 1995 game magazines were removed from newsstands because of complaints about such images (although NG was not one of them). On seeing the 'bloody' version of the Wipcout ad we decided unitaterally not to print the ad with the blood. Not only were we concerned about having Next Generation pulled from retailers, but also there was a general feeling among people here that the ad actually gained little --- other than shock value

- from the blood. Next Generation is opposed to censorship in its most insidious forms and we are extremely aware of the maturity and intelligence of our readers. Indeed, our take on this incident is not that we were patronizing anyone, but that any advertiser who thinks a splash of blood and shock tactics will be enough to make an NG reader buy their game is fooling himself So that's the official line Blood, who needs it?

hen I read that Sony would be trying to appeal to a more sophisticated audience. I was eager to invest my hard-earned \$300 in a PlayStation. I was, to say the least, disappointed to find games that were obviously



Burn:Cycle was short on gameplay, but had adult themes

developed and packaged to appeal to an adolescent audience. No doubt Tekken Wineout and Toshinden are entertaining, but their tone, perhaps stimulating to children and the "nerd audience." is condescending and insulting to adults. Perhaps more of what I was looking for were games like Phillips' Burn:Cycle, which falls

short on playability, but at least had an adult theme and storyline. Your preview of releases through 1996 didn't suggest that Sony was heading this direction. For now, my PlayStation is serving as an expensive CD player.

Marcus L. Wilson Louisville, KY

Sad but true. Nowhere in this industry, especially for consoles, do we see titles attempting a mature, thoughtful treatment of any kind of subject matter, leaving a noticeable lack of game analogs to a film like Dead Man Walking or a TV show like "Homicide Even within genres that games tend to follow, fantasy and science fiction, there's none that approach the depth of a film like Blode Runner (the closest gaming ever came was a text adventure Voyoging, released by Infocom in the mid-'80s). Of course, pap culture as a whole hasn't shown last 10 years, but even if a relatively small number of movies and TV shows take the serious approach, that still shames the rampant, prolonged adolescence the same industry has shown. game audience is aging, and might begin clamoring for more thoughtful subject matter - let's hope so.

'm sick and tired of you illiterate videogame magazines ragging on Atari and Jaguar, despite the recent slew [sic] of good and great titles for this nice little system. Yeah, Atari has made plenty of mistakes, but since Ted Hoff came on board, there's been much better software coming at

a much faster rate. If you ever resume covering the Jag fairly, I might buy another copy of your magazine. Until then, I find the Internet the best place for good laguar information.

Jerry Danzig PSFT55A@prodigy.com

And so on Ted Hoff is gone, Jeff Minter is gone. Atari has taken up residence in a tiny office. It has no developers. The fat lady is on stage. The microphone is plugged in. The aria has begun, We at Next Generation suggest the "Liebestod"

o you know if there's a chance that a Finol Fontosy or ChronoTriever game might come out for the PlayStation? SquareSoft RPG's are my favorite games and I don't want to have to buy a whole new system (Ultra 647) to play them.

Maggie Owens Rogers, AK

Your prayers have been answered. As we reported last month, for a number of reasons, including SquareSoft recently going public, and its general disappointment with both cost of releasing a large RPG on a cart-based machine, Square began negotiations with Sonx Since then the deal has been officially finilased, and work on Final Fantasy VII for PlayStation is well underway. The game is scheduled for a November release in Japan, with a US release (presumably under the conversations with some key personnel at Square suggest they

corresponding

may try porting some older games to other platforms, including PC, bundling several titles on single disc, but no final decisions have been made.

n n your November '95 issue you said that creator for locatur Yasuhara is the creator for Sega's Some the Hedgehog, but in my August-September issue of Sega Yasons. a game magaziam produced by Sega, there was an interview with the creator of Sone: the hedgehog, and his name was Yuji Nala. So, can you please tell me who the real creator of Sonic si? Who should I believe?

Eddie Rivera Santa Ana, CA

Kinda confusing, yes? It gets worse Hirokazu Yasuhara came up with the basic concept for the game very simple game mechanics (one button!), and a fast-moving character to go along with a new data processing routine he'd invented that would eventually be touted as "blast processing" Yuji Naka was the lead programmer and level designer for both Sone and Sone Sonic's trademark loops, jumps, and other feats of speed. However, the actual character of Sonic the Hedgehog was invented by a guy you don't even mention named Masato Oshima Does that make it clear, or just muddy everything even more? Ah, the

mally, a magazine with which are manageries after purchasing (Newport for the Sony Playstation, I returned the game having decoded that it was much too slow and really a bit overdone. This opinion was in contrast to every other game amagazine on the racks, except port to a team with a sadiscie streak a mile long (I'm poraphrasing, a lot.)

Congratulations on being one of the few publications that actually loads the game before reviewing it!

Travis Prebble tprebble@efn.org ou gave Vic Tokal's
Criticon two stars. In
your review you
commend the original character
designs, but in fact, excluding the
original eight, there are an
additional 16, since each
character changes in appearance
as they increase in rank. I spent
two hours with one character to
find this out. Did you spend this
much time? If not, how long do
you play a game before you give
it a complete review?

Joseph McCollum Orlando, FL

Next Generation makes a policy of spending as much time as humanly possible with a title before evaluating it for the finals we're talking about the Criticom review, even to the point of turning the piece in late). We take our jobs very seriously, and each conclusion, whether good or bad, is reached only after careful evaluation. Whether you agree or not is up to you, and there have been some controversies, but in the end if you're satisfied with your - if you find yourself taking it back in dispust, don't say we didn't warn you.

ou are so full of speculation. Why would it be doubtful that Nintendo won't let the world see its big surprises? Look at your clues. George Zachary says specifically that he didn't know why Nintendo did not turn on the tri-linear mip-mapping and anti-aliasing, when he has seen it run. It would appear that even though Nintendo did show the big game, It still held out. Why? It wants to shock the game industry, not ease gamers into a new era. If it had one hundred fully functioning units on display, wouldn't that suggest that manufacturing is in full force? Don't doubt Nintendo because it has had some delay problems with the Ultra 64. It will be out on the shelves soon, and it will be incredible.

Tyler LaGrange bigsixty@aol.com

fter reading your article on Nintendo's Ultra 64.1 think several issues concerning it need to be addressed. First, if the technologically inferior Saturn and PlayStation cost \$320 and \$270 to produce, surely Ultra 64 has to cost the consumer more than \$250? Second how much are Ultra 64 games going to cost? I have read reports of up to \$100 how can Nintendo justify using a medium that cost this much when PlayStation games cost around \$45? For example, I just purchased NHL Foce Off for PlayStation on a CD-ROM at \$46.99, while EA's NHL '96 for Genesis, a cart, was \$69.99. Third, how much will the lovead cost? Putting the memory card in the controller sounds good until you think about the fact that it has to add cost and further. controllers break. Lastly, Nintendo censors its games how can anyone support a company that decides what the purchaser can or cannot view? Larry Rocconi BADROCK316@aol.com

Our Shoshinlai coverage and Nintendo's long-awaited unwelling of Ultra 64 turned out to be a great source of "proof" for the Nintendo faithful and detractors aike. Since then, Nintendo has changed the name to "Nintendo 64" for all markets, and delayed its domestic release, again, until so domestic release, again, until

Nintendo will repeat history, delivering N64 when it's ready

September 30. It's clear the final chapter in the long N64 "Vaporware" wonderware" saga is long from being written.
Next Generation, as always, will continue to report the news as we see it. Any conclusions

you draw from the information are your own.

ou know for a while there. I thought you guys were nuts. You just kept putting down platform games simply because — well, they were platform games. But I've figured it out now! In each case you were talking about Acclam's platform games!

Well, let me help clarify: Acclaim games are not platform games. In platform games, you can jump up - or down onto various different levels, and explore up, down, left and right. Now.Acclaim games do have little platforms you can stand on. about a quarter of the way up the screen, but usually there's no reason to. Therefore, Acclaim games are more properly called TUNNEL games. You're in a tunnel with no branches no windows to see out, no forks, just an occasional shelf, and you set to run — one way through this tunnel (maybe it would actually be better if we called it a tube). You see, you should be

more clear about these things, then I wouldn't have ignored you and actually bought one of those games. Ah, but I learned (well, it was only 10 bucks, arryway). Bloodsong sphynx@genie.com

We sincerely apologize for any inconvenience our sloppy terminology may have caused. There really is no excuse in future editions of the NG Lexicon, we will be sure to include entries for "One-Way Tunnel Games," and "Licensed Tube Games,"

CORRECTION: In our article on How to Get a pbb in the Game Industry (NG 15), an edding mistake resulted in Interactive Development, a recruitment firm, being listed under Company Contacts. The company should have been listed with the other recruitment firms, Company Contacts. You can reach Interactive Development at (2/13 460-4900 or via email at seanlord@Zaol com. We

regret the error.

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ACTIVISION



The way games ought to be ...

Hi-octane game theory by Chris Crawford

Are you a winner or a loser? And how do you tell the difference between the two? And how come even the "best" games are so darned simple to beat?

et us consider the gameplaying process as story generating process. That is, a game is a machine that girds out a custom story for the player, each time the plays. Now, most games generate insapel stories that few would compare with hand-crafted stories. Correct this problem. Instead, I process on correct this problem. Instead, I process as a sequence of stories.

I shall use as my working example (once again) Doorn, for the same reasons that I have used it before: almost everybody has played the game and so most people are familiar with it. Moreover, I have praised the game design, so I need not waste ambody's time on the diplomatic niceties.

The example I'd like to zero in on is in Doom it, in a level called "Barreto O'Fun." This is a particularly clever level because Their are two places where rows of barrets are set up to explode in a chain reaction that will kill the player if he observit find shelter. OK, that's clever. But consider the precise sequence of stories that the player must go through until he finds a story with a "hoppy online" a "hoppy online".

Story C

Well, here I am in a new level called "Farrels O" Fun," it sounds intensesting, I see lots of barrels all around me. I'll very carefully just look around and... Omigod, I must have tripped a secret latch. A door has opened and I can hear the growl of a monster! Where is he? Hey, buts shot at me and a barrel blew up! Now more and more barrols are blowing up! I'm dead!

Story Tw

OK, this time I'm ready. I know that as soon as I move more than a couple of steps, I'll trip the secret latch and the monster will come. So this time I'm going to got him first. I'll just face in the correct direction and edge closer...closer... Yes, there he is! But there's a barrel between us! If I shoot, I'll set it off I) ho, he's shooting, the idold

The barrels are exploding! I'm dead!

Story Three

I'm not sure what to do because I can't shoot back and I can't seem to escape the exploding barrels. But I do notice an empty space where there aren't so many barrels so I'il just dout into that. Whoops, here comes the bad guy. The barrels are blowing up. Auggiht, there are still for many barrels — they're all blowing up again. I'm dead!

Experienced PC gamers have come to regard the save-die-reload cycle as a normal component of the total gaming experience. I want to slap all these people in the face and cry, "Wake Up!"

Story Four

Well, I don't know what to do. There appears to be no way out of this. But this is a long, long room; perhaps if I go to the other end I'll find some way out of this mess. OK, lof's start running, Drat, the barrels got in the way, Lift-oh, the monster long the long to the long the

Story Fiv

Well, we now know that there's a doorway at the end of the long room, and I think that if I can make it to the door, I might find safety inside. So this time I'm going to run as fast as I can toward the doorway. Let's go! Monster coming out... I'm stumbling a

bit... barrels exploding... I've got a good lead... almost there... here's the doorway... augghh, Oidn't make it! I'm dead!

Story 6

Let's try again. Here we go... running fast... maneuvering around those barrels well... the monster seems to be slow off the mark... there he goes...yes, barrels are exploding... I've got a huge lead... just don't make any mistakes now... almost there... explosions getting closer... at the door now...open it up... I'm through! Explosions have stopped! It's over! I made it! Horora! I'm not dead!

Now here's the question: is this the softens with unitropy endings followed by one story with a happy ending? Or all one one of the softens with unitropy ending? Or all one one of the softens with the thing softens is arbitrary own may think that this gather is a softens in a subtrary own may think the thing softens in a soften with the softens with the sometic.

But what if you're not an old pro gamer? What if you consider dying to be the same as losing? You'll have to lose five times before you win. And the question is, how many times are you willing to lose before you give up? Can you take all those unhappy-endings to achieve the happy one?

Expanenced PC games have come to regard the save derived cycle as a normal component of the total gaming experience. The component of the total gaming experience or produced by the component of the component component of the component component which the component component death means failure, losing, end of game, if cobert mean time cut, lose-sturn, or reload. When we design games that kild the pulper repeatedly, most people don't get the message that the game is challenging they component component

The way games ought to be ...

It offer the following design criterion for consideration. Any game that requires reloading or starting from the same place over and over again as a normal part of the player's progress through the system is fundamentally flewed. On the very first pluring, even a boldow average player should be able to successfully travers the game, the player is progressed to the player of the

Indeed, this raises a new question: should we banish death from our games? Why must we kill the player when we all know perfectly well that he will merely reload or restart the game again? Why should we force the tedious process of reloading or restarting upon him? And why should we require the even more tedious task of frequent saves? Why not use the computer to handle the tasks? If the player makes a mistake, then we automatically take him back to the most recent starting point and let him try again. The result in terms of gameplay is exactly the same. except that the player no longer has to deal with the petty issues of file management. Isn't that what computers were made for?

But there are even larger questions raised by "Barrels O' Fun." This level is one of the most complex and sophisticated challenges in one of the very best games of the 1990s, yet it presented a challenge that was easily solved by nothing more than near

What can we say about a design that challenges a person's willingness to resort to trial and error?

to trial and error? Shouldn't a game challenge something deeper inside us?

braintess trial and error. It disn't require any great insight on my part to solve the great insight on my part to solve the respective of the purple in the



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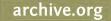


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